

STN Columbus

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 AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
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 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
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Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 06:15:59 ON 15 NOV 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.63

0.63

FILE 'REGISTRY' ENTERED AT 06:17:31 ON 15 NOV 2005

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STRUCTURE FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0

DICTIONARY FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s 3593.8.3/rid

L1 3000 3593.8.3/RID

=> s 591.49.51/rid

L2 96357 591.49.51/RID

=> s l1 (p) l2

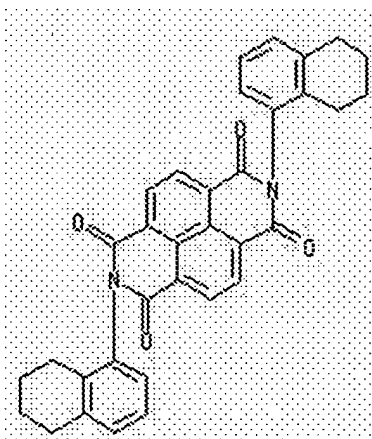
L3 2 L1 (P) L2

=> d scan

L3 2 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Benzo[1mn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis(5,6,7,8-
tetrahydro-1-naphthalenyl)- (9CI)

MF C34 H26 N2 O4

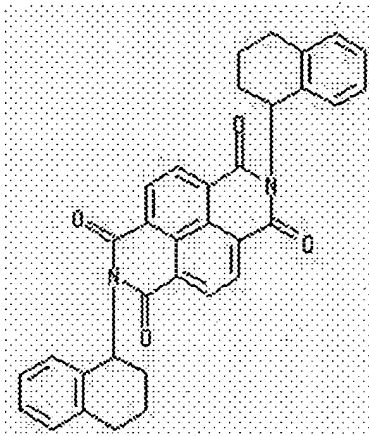


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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L3 2 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzo[1mn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis(1,2,3,4-tetrahydro-1-naphthalenyl)- (9CI)
 MF C34 H26 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil ca; s 13

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.06

10.69

FILE 'CA' ENTERED AT 06:18:47 ON 15 NOV 2005

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FILE COVERS 1907 - 10 Nov 2005 VOL 143 ISS 21

FILE LAST UPDATED: 10 Nov 2005 (20051110/ED)

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This file contains CAS Registry Numbers for easy and accurate

STN Columbus

substance identification.

L4 2 L3

=> d fbib 1-2

L4 ANSWER 1 OF 2 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 143:68288 CA

TI Phenylazomethylene-cyclohexadienone derivatives comprising electron withdrawing group and electrophotographic photoreceptor comprising the derivatives

IN Kim, Beom-Jun; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Seung-Ju

PA Samsung Electronics Co., Ltd., S. Korea

SO U.S. Pat. Appl. Publ., 32 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005130051	A1	20050616	US 2004-964740	20041015
				KR 2003-91437	A 20031215
	JP 2005179358	A2	20050707	JP 2004-363689	20041215
				KR 2003-91437	A 20031215

L4 ANSWER 2 OF 2 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 142:123039 CA

TI Naphthalenetetracarboxylic acid diimide derivatives and electrophotographic photoconductive material having the same

IN Kim, Seung-Ju; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Beom-Jun

PA Samsung Electronics Co., Ltd., S. Korea

SO U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005003286	A1	20050106	US 2004-768083	20040202
				KR 2003-45323	A 20030704
	JP 2005029559	A2	20050203	JP 2004-107376	20040331
				KR 2003-45323	A 20030704

OS MARPAT 142:123039

=> fil uspatfull; s 13

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.96	13.65

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 06:19:49 ON 15 NOV 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 10 Nov 2005 (20051110/PD)

FILE LAST UPDATED: 10 Nov 2005 (20051110/ED)

HIGHEST GRANTED PATENT NUMBER: US6964061

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HIGHEST APPLICATION PUBLICATION NUMBER: US2005251889
CA INDEXING IS CURRENT THROUGH 10 Nov 2005 (20051110/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Nov 2005 (20051110/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

```
>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
>>> applications.  USPAT2 contains full text of the latest US  <<<
>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.  <<<
```

```
>>> USPATFULL and USPAT2 can be accessed and searched together  <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to  <<<
>>> enter this cluster.  <<<
>>>  <<<
>>> Use USPATALL when searching terms such as patent assignees,  <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.  <<<
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

L5 2 L3

=> d pn 1-2

L5 ANSWER 1 OF 2 USPATFULL on STN
PI US 2005130051 A1 20050616

L5 ANSWER 2 OF 2 USPATFULL on STN
PI US 2005003286 A1 20050106

=> d his

(FILE 'HOME' ENTERED AT 06:15:59 ON 15 NOV 2005)

FILE 'REGISTRY' ENTERED AT 06:17:31 ON 15 NOV 2005

L1 3000 S 3593.8.3/RID
L2 96357 S 591.49.51/RID
L3 2 S L1 (P) L2

FILE 'CA' ENTERED AT 06:18:47 ON 15 NOV 2005

L4 2 S L3

FILE 'USPATFULL' ENTERED AT 06:19:49 ON 15 NOV 2005

L5 2 S L3

=> s 591.45/rid

'RID' IS NOT A VALID FIELD CODE

L6 0 591.45/RID

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

STN Columbus

	ENTRY	SESSION
FULL ESTIMATED COST	6.16	19.81

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STRUCTURE FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0
 DICTIONARY FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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=> s 591.45/rid
L7          78 591.45/RID
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          0 L1 (P) L7
L8          0 L1 (P) L7 NOT L3
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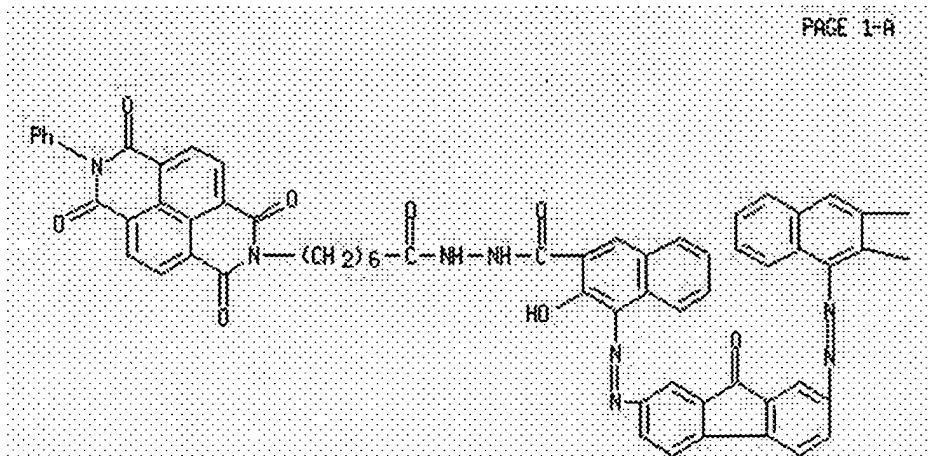
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L9          848138 591.49/RID
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          50 L1 (P) L9
L10         48 L1 (P) L9 NOT L3
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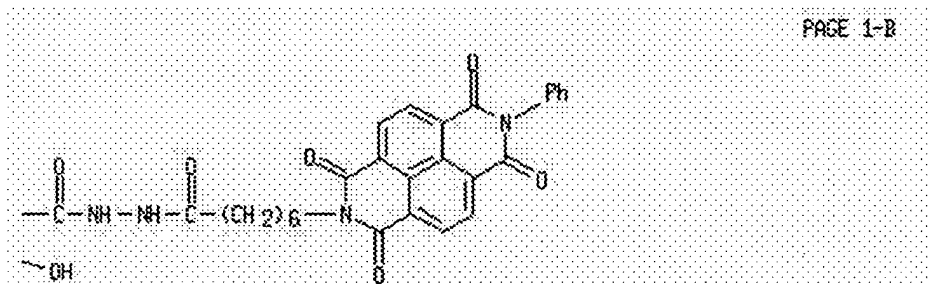
```
=> d scan
```

```
L10  48 ANSWERS  REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzo[1mn][3,8]phenanthroline-2(1H)-heptanoic acid, 3,6,7,8-tetrahydro-
      1,3,6,8-tetraoxo-7-phenyl-, 2,2'-[(9-oxo-9H-fluorene-2,7-diyl)bis[azo(2-
      hydroxy-1,3-naphthalenediyl)carbonyl]]dihydrazide (9CI)
MF   C89 H64 N12 O15
```

PAGE 1-A



PAGE 1-B

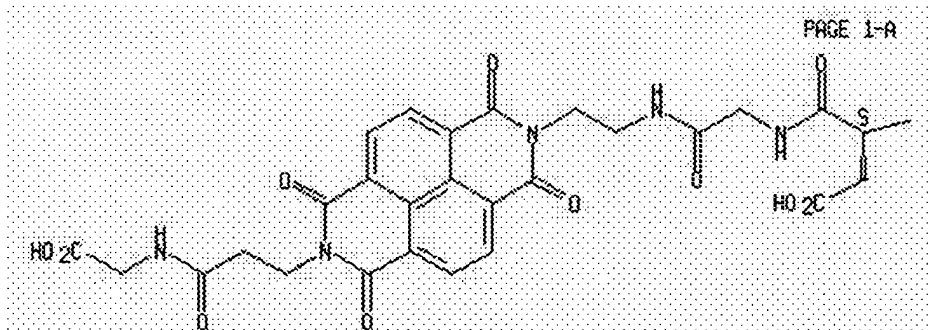


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) .

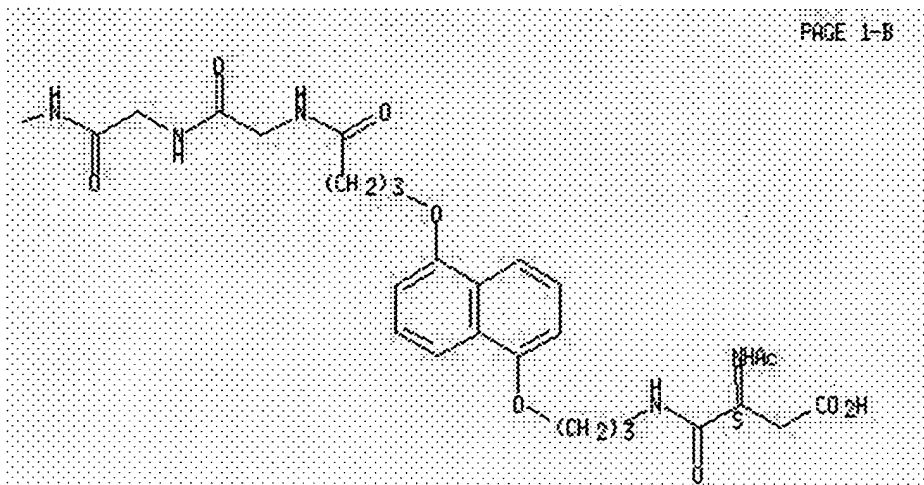
L10 48 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N-acetyl-L- α -aspartyl-4-[[5-(3-aminopropoxy)-1-naphthalenyl]oxy]butanoylglycylglycyl-L- α -aspartylglycyl-7-(2-aminoethyl)-3,6,7,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2(1H)-propanoyl- (9CI)
 SQL 8
 MF C54 H58 N10 O20

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

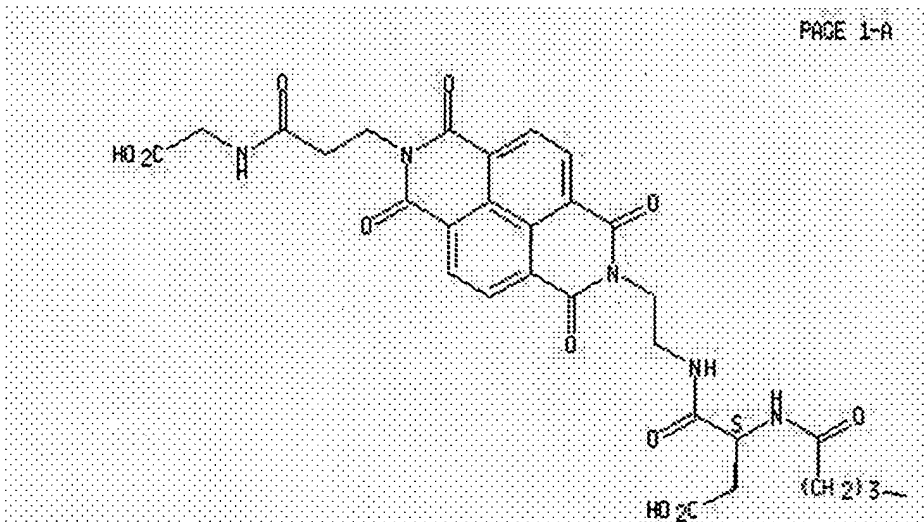


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

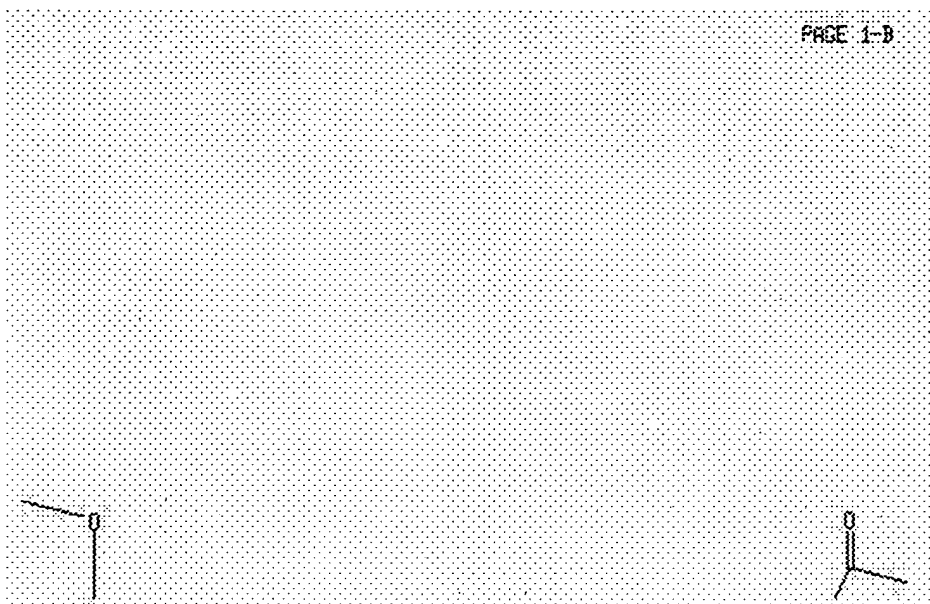
L10 48 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N-(3-carboxy-1-oxopropyl)-L- α -aspartyl-7-(2-aminoethyl)-
 3,6,7,8-tetrahydro-1,3,6,8-tetraoxobenzo[1mn][3,8]phenanthroline-2(1H)-
 propanoyl-4-[[5-(3-aminopropoxy)-1-naphthalenyl]oxy]butanoyl-L- α -
 aspartyl-7-(2-aminoethyl)-3,6,7,8-tetrahydro-1,3,6,8-
 tetraoxobenzo[1mn][3,8]phenanthroline-2(1H)-propanoyl- (9CI)
 SQL 6
 MF C69 H64 N10 O24

Absolute stereochemistry.

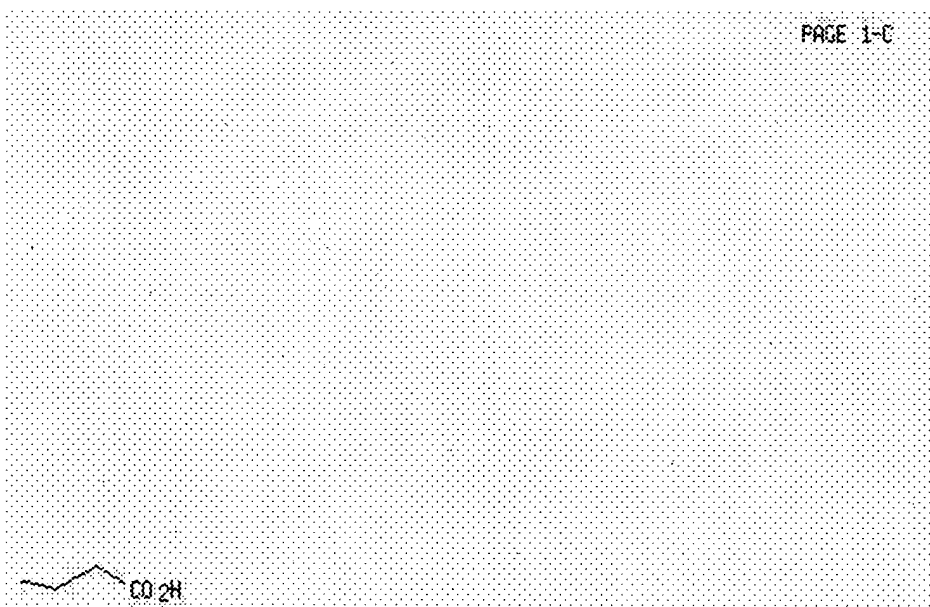
PAGE 1-A

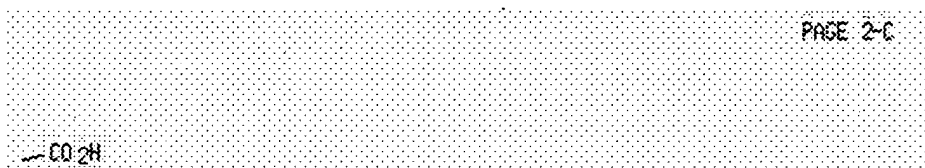
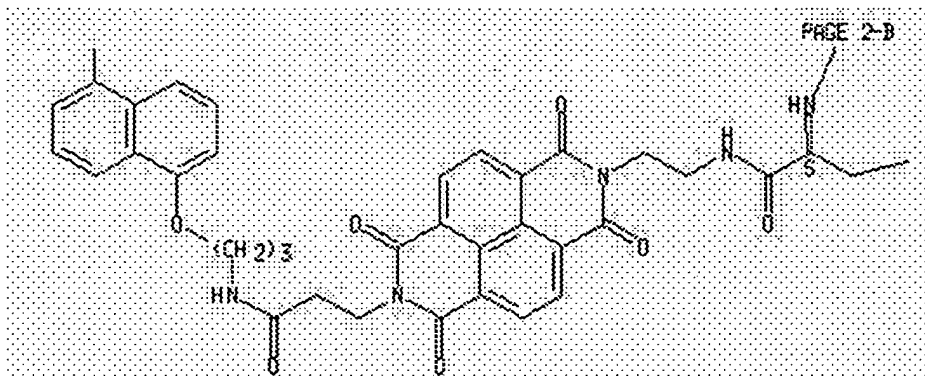


PAGE 1-B



PAGE 1-C





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.92

30.73

FILE 'STNGUIDE' ENTERED AT 06:24:17 ON 15 NOV 2005

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

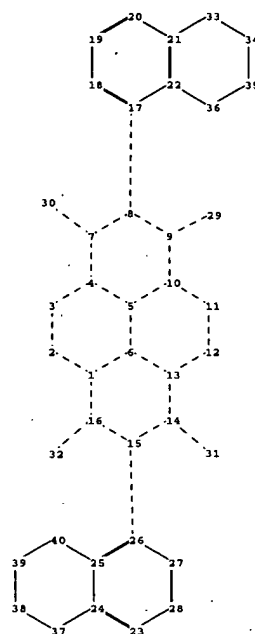
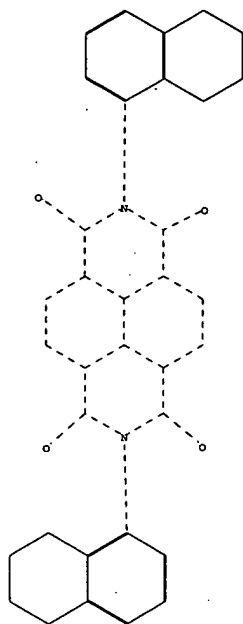
FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Nov 11, 2005 (20051111/UP).

=>

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	655	(430/78).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 07:00
L2	58	l1 and (diimide or naphthalenetetracarboxylic\$10)	US-PGPUB; USPAT	ADJ	ON	2005/11/15 07:16
L3	147	(546/66).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 08:12
L4	248	(430/58.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 08:12

MARPAT structure



chain nodes :

29 30 31 32

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
 26 27 28 33 34 35 36 37 38 39 40

chain bonds :

7-30 8-17 9-29 14-31 15-26 16-32

ring bonds :

1-2 1-6 1-16 2-3 3-4 4-5 4-7 5-6 5-10 6-13 7-8 8-9 9-10 10-11 11-12 12-13
 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22 21-33 22-36 23-24 23-28
 24-25 24-37 25-26 25-40 26-27 27-28 33-34 34-35 35-36 37-38 38-39 39-40

exact/norm bonds :

1-2 1-6 1-16 2-3 3-4 4-5 4-7 5-6 5-10 6-13 7-8 7-30 8-9 8-17 9-10 9-29
 10-11 11-12 12-13 13-14 14-15 14-31 15-16 15-26 16-32 21-33 22-36 24-37 25-40
 33-34 34-35 35-36 37-38 38-39 39-40

normalized bonds :

17-18 17-22 18-19 19-20 20-21 21-22 23-24 23-28 24-25 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS 30:CLASS 31:CLASS
 32:CLASS 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
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 NEWS 14 OCT 27 DIOGENES content streamlined
 NEWS 15 OCT 27 EPFULL enhanced with additional content
 NEWS 16 NOV 14 CA/CAPLUS - Expanded coverage of German academic research

 NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 09:09:19 ON 15 NOV 2005

=> fil marpat

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MARPAT' ENTERED AT 09:09:33 ON 15 NOV 2005

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FILE CONTENT: 1988-PRESENT (VOL 143 ISS 18) (20051113/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES

(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6924313 02 AUG 2005
 DE 1020040544 04 AUG 2005
 EP 1568694 31 AUG 2005
 JP 2005213127 11 AUG 2005
 WO 2005090358 29 SEP 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=>

Uploading structure

L1 STRUCTURE UPLOADED

=> s sam l1

SAMPLE SEARCH INITIATED 09:11:41 FILE 'MARPAT'
 SAMPLE SCREEN SEARCH COMPLETED - 74 TO ITERATE

100.0% PROCESSED 74 ITERATIONS 1 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 965 TO 1995
 PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

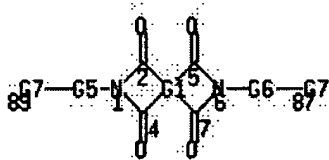
=> d scan

L2 1 ANSWERS MARPAT COPYRIGHT 2005 ACS on STN
 IC ICM C07D209-48
 ICS C07D487-04; C09K011-06; H05B033-14; H05B033-22
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 27
 TI Bisimide derivatives bearing bisarylamino groups, their preparation, and hole-transporting materials, green-emitting phosphors, and organic electroluminescent device
 ST arylamino bisimide deriv amorphous heat resistance; org electroluminescent device bisarylamino bisimide deriv; hole transporting material bisarylamino bisimide deriv; green emitting phosphor bisarylamino bisimide deriv
 IT Phosphors
 (green-emitting; prepn. of bisimide derivs. bearing bisarylamino groups for hole-transporting materials, green-emitting phosphor, and org. EL device)
 IT Electroluminescent devices
 (org.; prepn. of bisimide derivs. bearing bisarylamino groups for hole-transporting materials, green-emitting phosphor, and org. EL device)
 IT 691883-38-2P 691883-40-6P 691883-41-7P 691883-42-8P 691883-43-9P
 691883-44-0P 691883-45-1P 691883-46-2P 691883-47-3P 691883-48-4P
 691883-49-5P 691883-50-8P 691883-51-9P
 RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
 (prepn. of bisimide derivs. bearing bisarylamino groups for hole-transporting materials, green-emitting phosphor, and org. EL device)

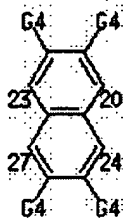
IT 233591-43-0P 259169-65-8P 691883-27-9P 691883-29-1P 691883-30-4P
 691883-32-6P 691883-35-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of bisimide derivs. bearing bisarylamino groups for
 hole-transporting materials, green-emitting phosphor, and org. EL
 device)

IT 89-32-7, Pyromellitic dianhydride 585-79-5, 3-Bromonitrobenzene
 586-78-7, 4-Bromonitrobenzene 1107-00-2, 4,4'-
 (Hexafluoroisopropylidene)diphthalic anhydride 1823-59-2 2420-87-3,
 4,4'-Biphthalic anhydride 2421-28-5, 3,3',4,4'-
 Benzophenonetetracarboxylic acid dianhydride 2540-99-0,
 4,4'-Sulfonyldiphthalic anhydride 28320-33-4 38103-06-9 500717-23-7
 672289-02-0 691883-28-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of bisimide derivs. bearing bisarylamino groups for
 hole-transporting materials, green-emitting phosphor, and org. EL
 device)

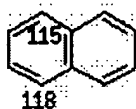
MSTR 1



G1 = 23-2 27-4 20-5 24-7



G5 = 115-89 118-1



G6 = 235-6 234-87



Patent location:

claim 1

Note:

additional substitution also claimed

ALL ANSWERS HAVE BEEN SCANNED

=> s sss full l1

FULL SEARCH INITIATED 09:14:42 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 1689 TO ITERATE

100.0% PROCESSED 1689 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.04

L3 10 SEA SSS FUL L1

=> d fbib hitstr 1-10; fil stnguide

'HITSTR' IS NOT A VALID FORMAT FOR FILE 'MARPAT'

The following are valid formats:

MSTR ----- All Markush structure(s) and related text information
MSTR(n) -- Markush structure(n) and related text information
IDE ----- AN and MSTR

ABS ----- AB
ALL ----- BIB, AB, IND, RE, and MSTR
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing Data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT, and FQHIT
SCAN ----- CC, SX, TI, ST, IT, and FQHIT (random display,
no answer numbers)
STD ----- BIB, IPC, and NCL (standard patent information)

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit text terms and the Markush
structures containing the query structure
FHIT ----- Fields containing the first hit text terms and the first
Markush structures containing the query structure
QHIT ----- Fields containing query focus hit text terms and the
Markush structures containing the query structure
FQHIT ----- Fields containing the first query focus hit text terms and
the first Markush structures containing the query structure

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter "HELP DFIELDS" at an arrow prompt (=>). Examples of formats include: "TI"; "TI,MSTR,ABS"; "BIB,ST"; "TI,IND"; "TI,SO". You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

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ENTER DISPLAY FORMAT (BIB):bib mstr

L3 ANSWER 1 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 142:123039 MARPAT

TI Naphthalenetetracarboxylic acid diimide derivatives and electrophotographic photoconductive material having the same

IN Kim, Seung-Ju; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Beom-Jun

PA Samsung Electronics Co., Ltd., S. Korea

SO U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

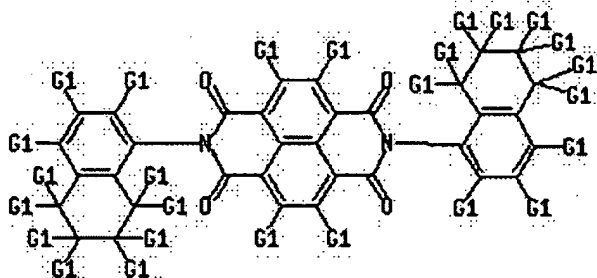
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005003286	A1	20050106	US 2004-768083	20040202
	JP 2005029559	A2	20050203	JP 2004-107376	20040331
PRAI	KR 2003-45323		20030704		

MSTR 1



- G1 = H / F / Cl / Br / I / alkyl <containing 1-20 C> (opt. substd. by 1 or more G4) / alkoxy <containing 1-20 C> (opt. substd. by 1 or more G4) / aryl <containing 6-30 C> (opt. substd. by 1 or more G3) / alkyl <containing 1 or more C> (substd. by 1 or more G2)
- G2 = R / aryl <containing 6-30 C> (opt. substd. by 1 or more G3) / (Specifically claimed: alkyl (opt. substd.) / aryl (opt. substd.) / Br / Cl / F / I / alkoxy (opt. substd.))
- G3 = R / (Specifically claimed: alkyl (opt. substd.) / alkoxy (opt. substd.) / NO2 / F / Cl / Br / I / aryl (opt. substd.))
- G4 = R / (Specifically claimed: alkyl (opt. substd.) / aryl (opt. substd.) / Br / Cl / F / I / alkoxy (opt. substd.))

Patent location: claim 1

L3 ANSWER 2 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 142:30001 MARPAT

TI Deep-UV anti-reflective resist compositions

IN Minsek, David W.; Nawrocki, Daniel J.

PA Microchem Corp., USA

SO U.S., 10 pp.

CODEN: USXXAM

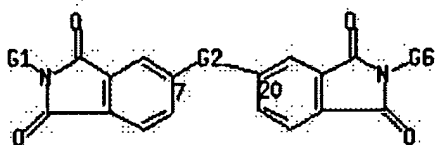
DT Patent

LA English

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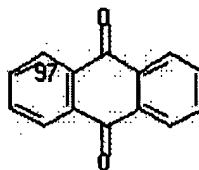
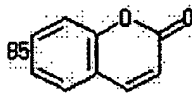
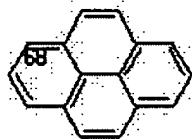
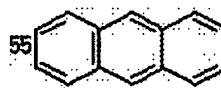
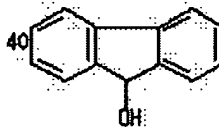
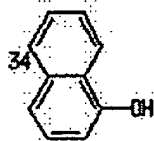
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MSTR 1

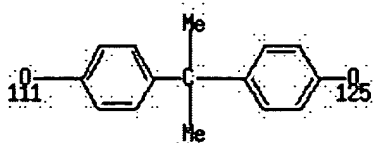


G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
85 / 97)

G4-G5

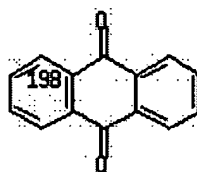
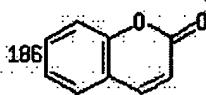
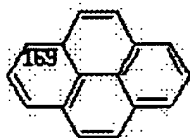
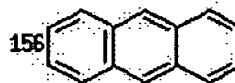
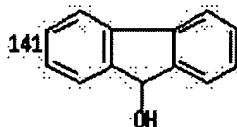
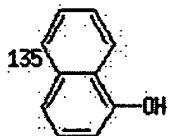


G2 = arylene (opt. substd.) /
carbon chain (opt. substd.) / carbocycle <non-aromatic>
(opt. substd.) / C(O) / bond / O / S / SO2 /
(Specifically claimed: 111-7 125-20)



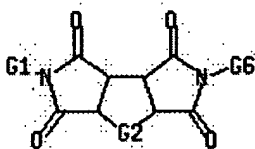
- G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

G7—G5
 128



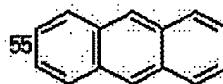
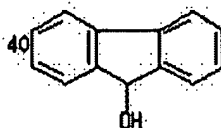
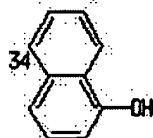
- G7 = phenylene (opt. substd.)
 Patent location: claim 1

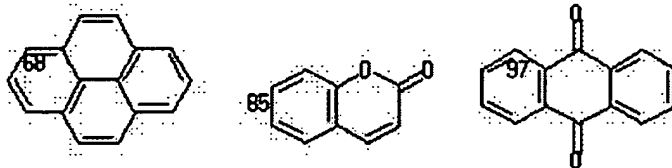
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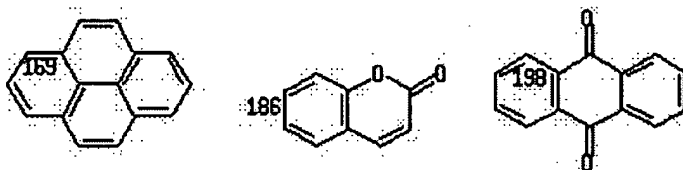
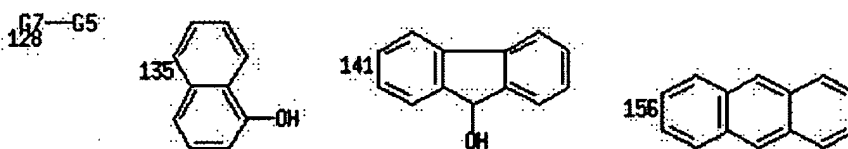
- G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

G4—G5
 27



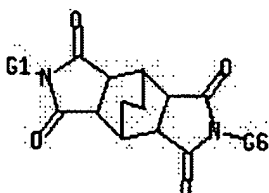


G2 = CH₂ / O
 G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

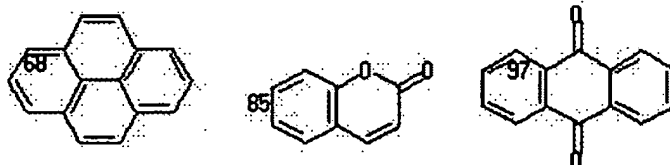
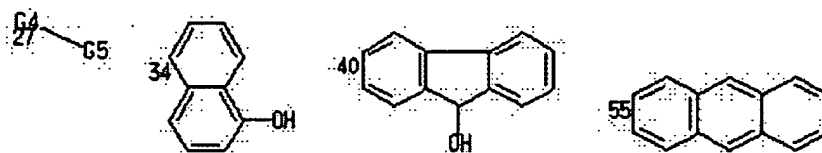


G7 = phenylene (opt. substd.)
 Patent location: claim 1

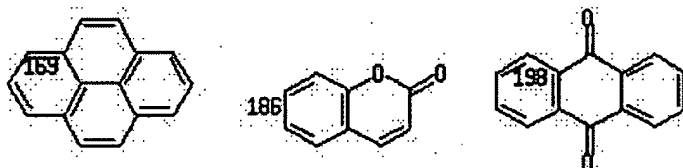
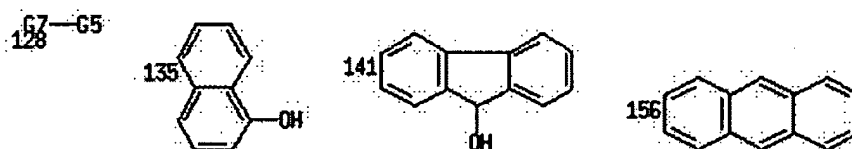
MSTR 3



G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

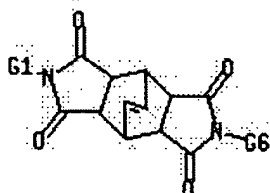


G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)



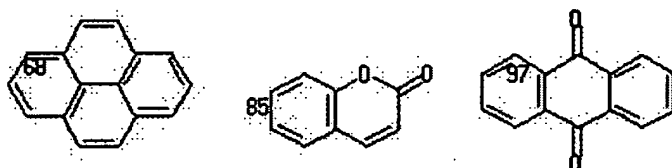
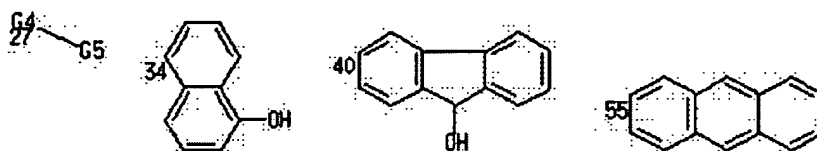
G7 = phenylene (opt. substd.)
 Patent location: claim 1

MSTR 4

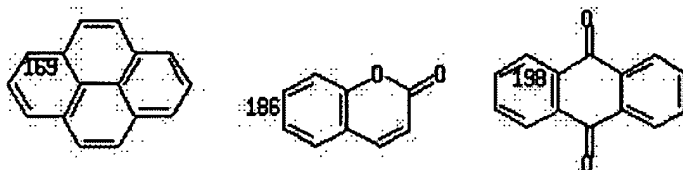
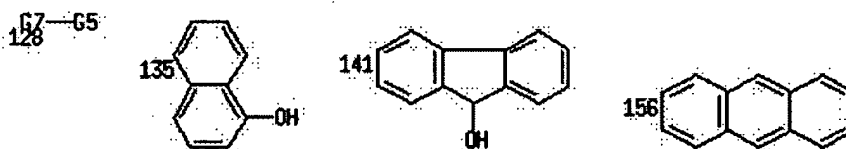


G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /

85 / 97)

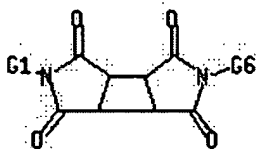


G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3). /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)



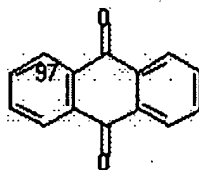
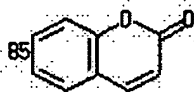
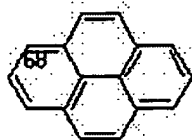
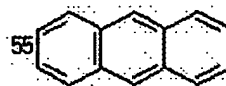
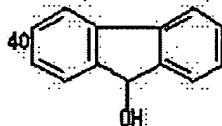
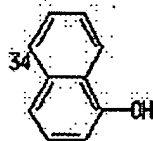
G7 = phenylene (opt. substd.)
 Patent location: claim 1

MSTR 5



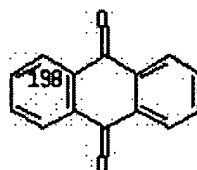
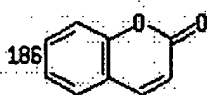
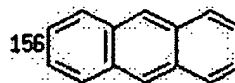
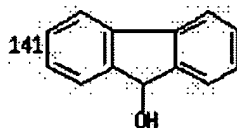
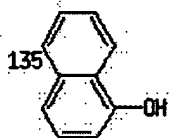
G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

27^{G4-G5}



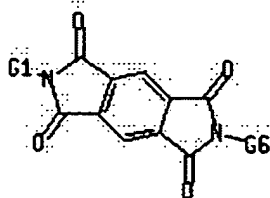
G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

128^{G7-G5}

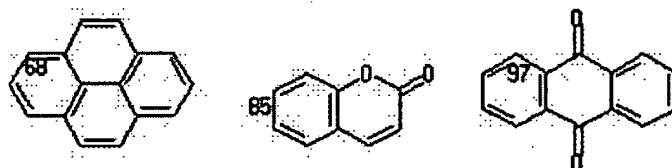
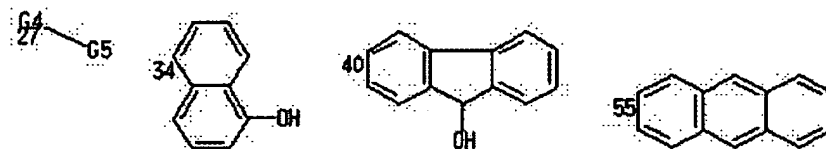


G7 = phenylene (opt. substd.)
 Patent location: claim 1

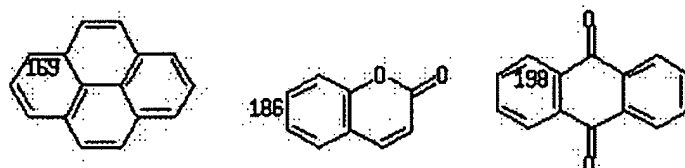
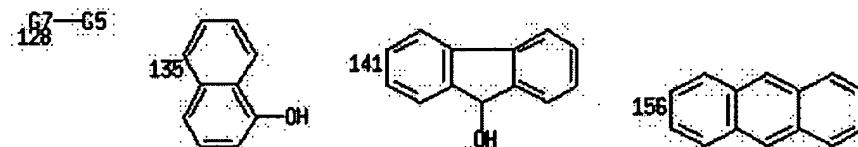
MSTR 6



G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

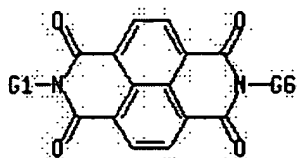


G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

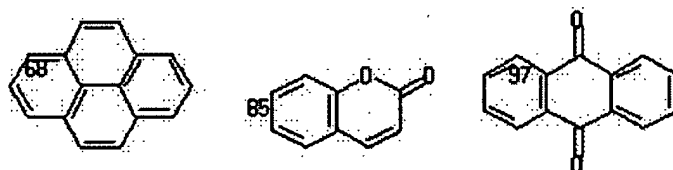
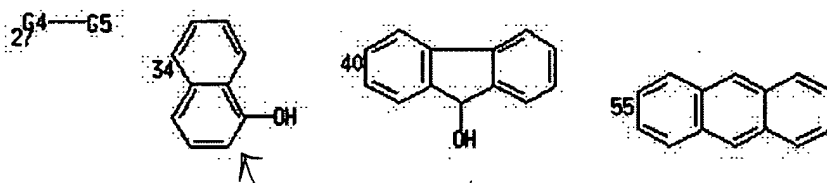


G7 = phenylene (opt. substd.)
 Patent location: claim 1

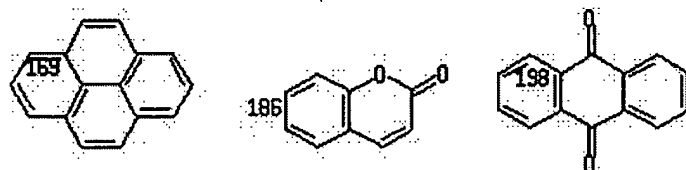
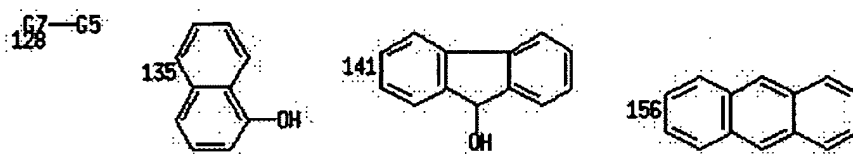
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G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

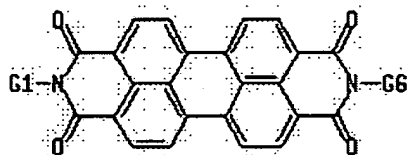


G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)



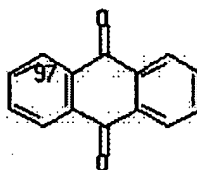
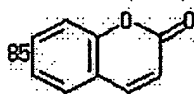
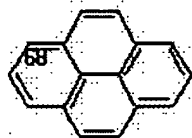
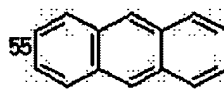
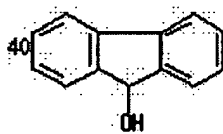
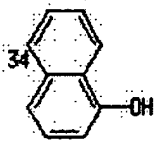
G7 = phenylene (opt. substd.)
 Patent location: claim 1

MSTR 8



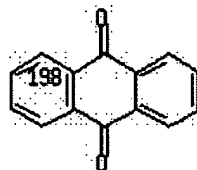
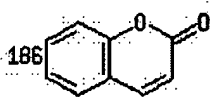
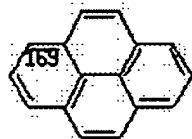
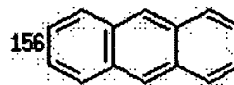
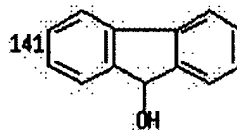
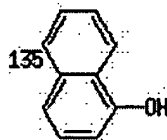
G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

G4—G5
 27



G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

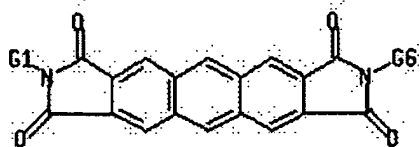
G7—G5
 128



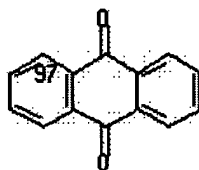
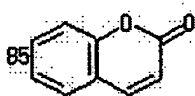
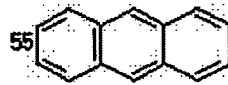
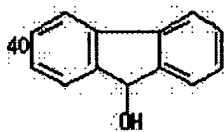
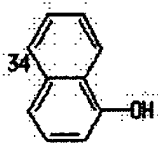
G7 = phenylene (opt. substd.)

Patent location: claim 1

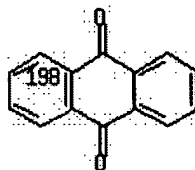
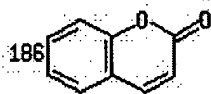
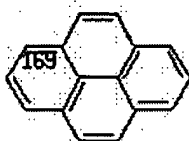
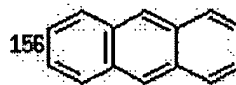
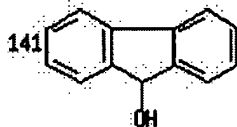
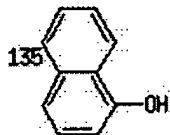
MSTR 9



G1 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
 85 / 97)

G4—G5
27

G3 = OH / CO₂H / R
 G4 = phenylene (opt. substd.)
 G5 = CO₂H / OH
 G6 = aryl (opt. substd. by 1 or more G3) /
 (Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
 169 / 186 / 198)

G7—G5
128

G7 = phenylene (opt. substd.)
 Patent location: claim 1

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

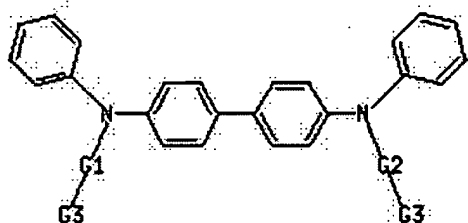
Full Text

AN 141:340349 MARPAT
 TI Electrophotographic photoconductor
 IN Belknap, Nancy L.; Chen, Cindy C.; Zhang, Lanhui; Ioannidis, Andronique;
 Duff, James M.; Graham, John F.; Bender, Timothy P.
 PA Xerox Corporation, USA
 SO U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DT Patent
 LA English

FAN.CNT 1

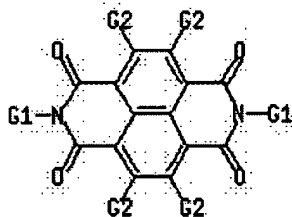
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PI	US 2004197686	A1	20041007	US 2003-408201	20030404
	US 6858363	B2	20050222		
	JP 2004310102	A2	20041104	JP 2004-110676	20040405
PRAI	US 2003-408201		20030404		

MSTR 1



G1 = phenylene
 G2 = phenylene
 G3 = alkyl (opt. substd.) / halo /
 (Specifically claimed: Me / Cl)
 Patent location: claim 30

MSTR 2



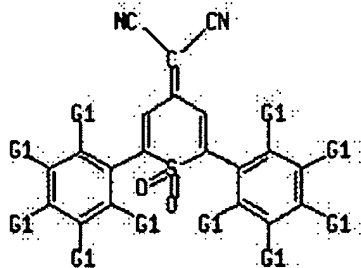
G1 = H / alkyl <containing 1-50 C> (opt. substd.) /
 alkoxy <containing 1-50 C> / cycloalkyl <containing 3-50 C>
 (opt. substd.) / aryl (opt. substd.) / Ph / naphthyl /

anthracenyl / halo / (Examples: Cl / Me)
 G2 = H / alkyl (opt. substd.) / alkoxy / cycloalkyl /
 aryl / Ph / naphthyl / anthracenyl / halo / (Examples: Cl /
 Me)

Patent location: claim 38

Note: also includes broader disclosure

MSTR 3



G1 = H / alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / halo / Ph (opt. substd. by G2) /
 aryl (opt. substd.) / naphthyl / anthracenyl / halo /
 (Examples: Cl / Me)

G2 = alkyl <containing up to 34 C> /
 alkoxy <containing up to 34 C>

Patent location: claim 28

Note: also includes a broader disclosure

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 141:322546 MARPAT

TI Electrophotographic photoconductor

IN Ioannidis, Andronique; Belknap, Nancy L.; Chen, Cindy C.; Zhang, Lanhui;
 Bender, Timothy P.; Graham, John F.; Hor, Ah-Mee; Duff, James M.

PA Xerox Corporation, USA

SO Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

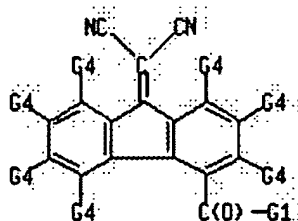
DT Patent

LA English

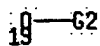
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 2004197685	A1	20041007	US 2003-408204	20030404
	CA 2462226	AA	20041004	CA 2004-2462226	20040329
	JP 2004310089	A2	20041104	JP 2004-102526	20040331
	BR 2004000914	A	20050111	BR 2004-914	20040331
PRAI	US 2003-408204		20030404		

MSTR 1



G1 = OH / 19



G2 = alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more
G3) / naphthyl / anthracenyl / (Specifically claimed: Me /
Et)

G3 = R / alkyl <containing 1-34 C> /
alkoxy <containing 1-34 C>

G4 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more
G3) / naphthyl / anthracenyl / (Specifically claimed: Me /
Et)

Patent location:

claim 1

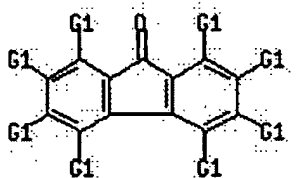
Note:

also includes broader disclosure

Note:

also includes a broader disclosure

MSTR 2



G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / halo / 2 or more NO2 /
Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl /
(Specifically claimed: Me / Et)

G2 = R / alkyl <containing 1-34 C> /
alkoxy <containing 1-34 C>

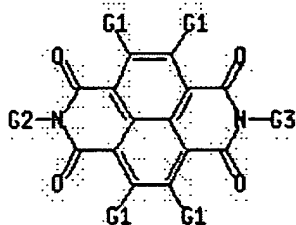
Patent location:

claim 1

Note:

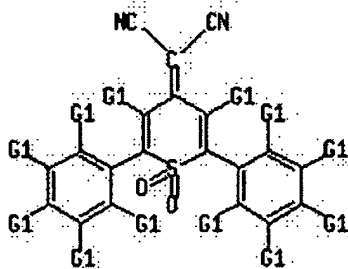
also includes broader disclosure

MSTR 3



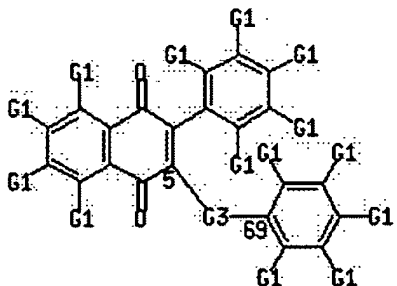
- G1 = alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / cycloalkyl (opt. substd.) / halo / Ph /
naphthyl / anthracenyl / (Specifically claimed: Me / Et)
- G2 = alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / cycloalkyl (opt. substd.) / halo / Ph /
naphthyl / anthracenyl / (Specifically claimed: Me / Et)
- G3 = alkyl (opt. substd.) / alkoxy (opt. substd.) /
cycloalkyl (opt. substd.) / aryl (opt. substd.) / Ph /
naphthyl / anthracenyl / (Specifically claimed: Me / Et)
- Patent location: claim 1
- Note: substitution is restricted
- Note: also includes broader disclosure

MSTR 4

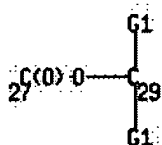


- G1 = H / alkyl (opt. substd.) / alkoxy /
aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more
G2) / naphthyl / anthracenyl / (Specifically claimed: Me /
Et)
- G2 = alkyl <containing 1-34 C> /
alkoxy <containing 1-34 C> / alkoxy <containing 1 or more C>
(opt. substd.)
- Patent location: claim 1
- Note: also includes broader disclosure

MSTR 5

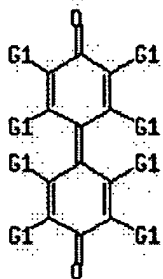


- G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) /
aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more
G2) / naphthyl / anthracenyl / (Specifically claimed: Me /
Et)
- G2 = alkyl <containing 1 or more C> (opt. substd.)
- G3 = 27-5 29-69 / C(O)



Patent location: claim 1
Note: also includes broader disclosure

MSTR 6



- G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) /
halo / aryl (opt. substd.) / Ph (opt. substd. by 1 or more
G2) / (Specifically claimed: Me / Et)
- G2 = alkyl <containing 1 or more C> /
alkoxy <containing 1 or more C>
- Patent location: claim 1
Note: also includes broader disclosure

L3 ANSWER 5 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 140:431125 MARPAT

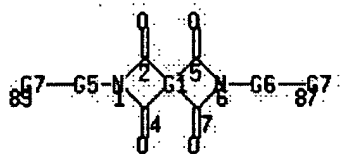
TI Bisimide derivatives bearing bisarylamino groups, their preparation, and
hole-transporting materials, green-emitting phosphors, and organic
electroluminescent device

IN Fukuoka, Naohiko; Tagami, Sanae; Fujiwara, Toru; Shionoya, Hidehiko

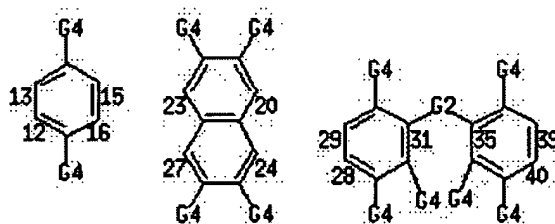
PA Chemipro Kasei Ltd., Japan
 SO Jpn. Kokai Tokyo Koho, 52 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004143044	A2	20040520	JP 2002-306249	20021021
PRAI	JP 2002-306249		20021021		

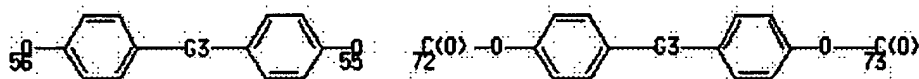
MSTR 1



G1 = 13-2 12-4 15-5 16-7 / 23-2 27-4 20-5 24-7 /
 29-2 28-4 39-5 40-7



G2 = bond / O / C(O) / SO2 / S / alkylidene /
 56-31 55-35 / 72-31 73-35

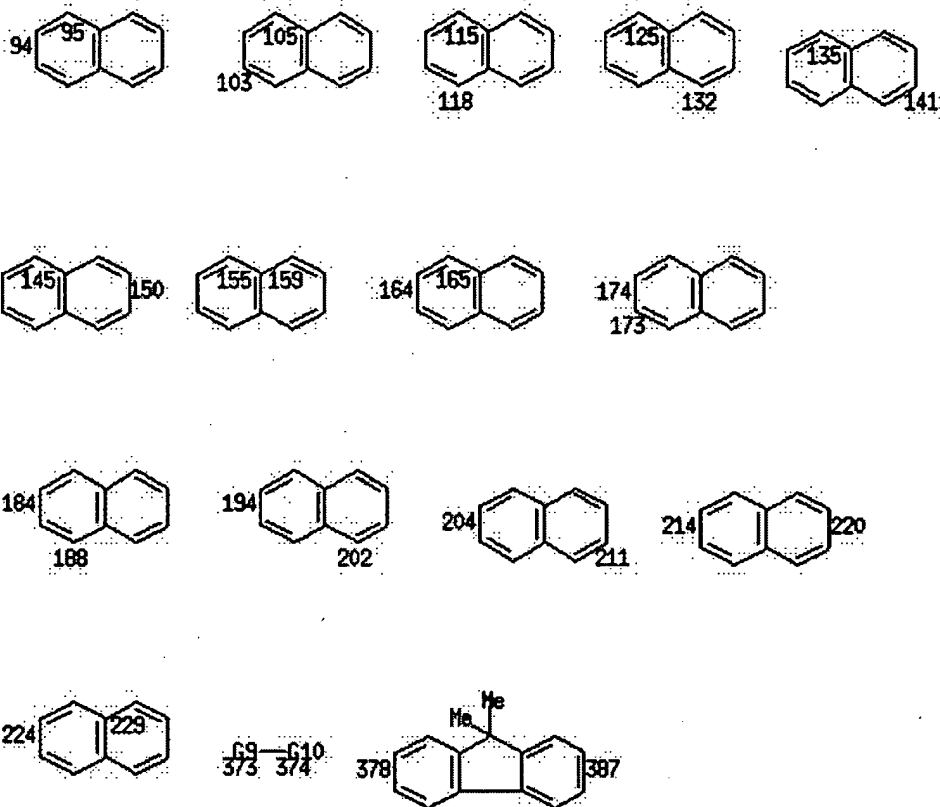


G3 = alkylidene / (Example: 412)

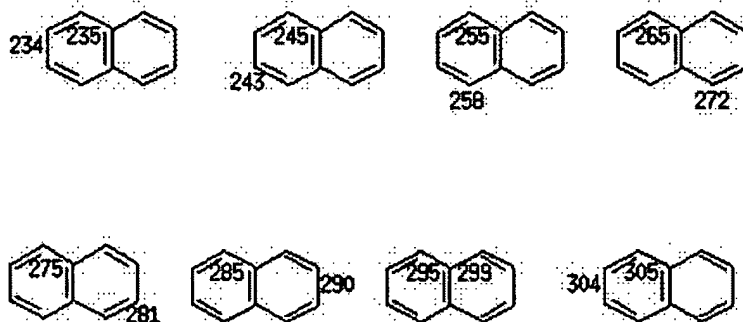


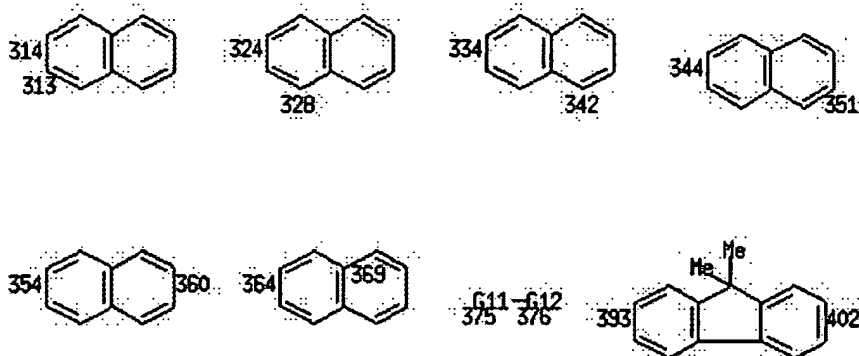
G4 = H / alkyl / cycloalkyl / alkoxy / cycloalkyloxy /
 aryl (opt. substd.) / F / Cl / Br / I
 G5 = arylene (opt. substd.) /
 (Specifically claimed: phenylene / 95-89 94-1 /
 105-89 103-1 / 115-89 118-1 / 125-89 132-1 /
 135-89 141-1 / 145-89 150-1 / 155-89 159-1 /
 164-89 165-1 / 174-89 173-1 / 184-89 188-1 /
 194-89 202-1 / 204-89 211-1 / 214-89 220-1 /
 224-89 229-1 / 373-89 374-1 /

carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings> / (Example: 378-89 387-1)

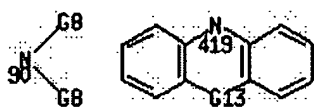


G6 = arylene (opt. substd.) /
(Specifically claimed: phenylene / 235-6 234-87 /
245-6 243-87 / 255-6 258-87 / 265-6 272-87 /
275-6 281-87 / 285-6 290-87 / 295-6 299-87 /
304-6 305-87 / 314-6 313-87 / 324-6 328-87 /
334-6 342-87 / 344-6 351-87 / 354-6 360-87 /
364-6 369-87 / 375-6 376-87 /
carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings> / (Example: 393-6 402-87)

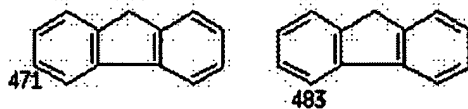
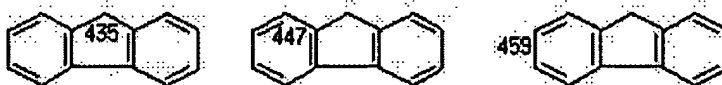




G7 = 90 / heterocycle <containing 1 or more N,
attached through 1 or more N> / (Example: 419)

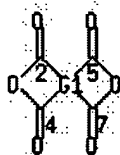


G8 = aryl (opt. substd.) / (Examples: 435 / 447 / 459 /
471 / 483)



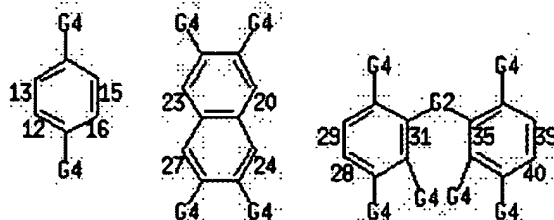
G9 = phenylene
G10 = phenylene
G11 = phenylene
G12 = phenylene
G13 = bond / CH₂CH₂ / CH=CH / S / O
Patent location: claim 1
Note: additional substitution also claimed

MSTR 2

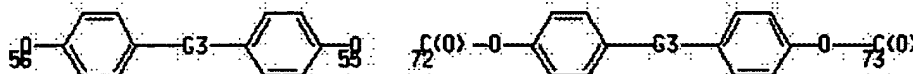


G1 = 13-2 12-4 15-5 16-7 / 23-2 27-4 20-5 24-7 /

29-2 28-4 39-5 40-7



G2 = bond / O / C(O) / SO₂ / S / alkylidene /
56-31 55-35 / 72-31 73-35

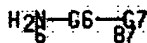


G3 = alkylidene / (Example: 412)

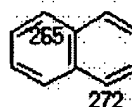
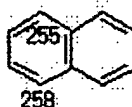
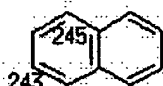
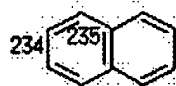


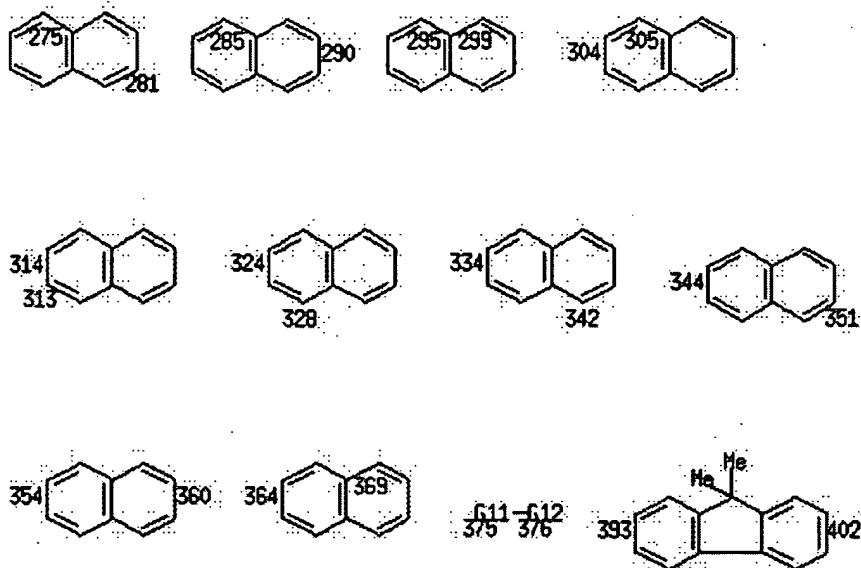
G4 = H / alkyl / cycloalkyl / alkoxy / cycloalkyloxy /
aryl (opt. substd.) / F / Cl / Br / I
Patent location: claim 5

MSTR 3

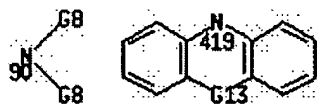


G6 = arylene (opt. substd.) /
(Specifically claimed: phenylene / 235-6 234-87 /
245-6 243-87 / 255-6 258-87 / 265-6 272-87 /
275-6 281-87 / 285-6 290-87 / 295-6 299-87 /
304-6 305-87 / 314-6 313-87 / 324-6 328-87 /
334-6 342-87 / 344-6 351-87 / 354-6 360-87 /
364-6 369-87 / 375-6 376-87 /
carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings> / (Example: 393-6 402-87)

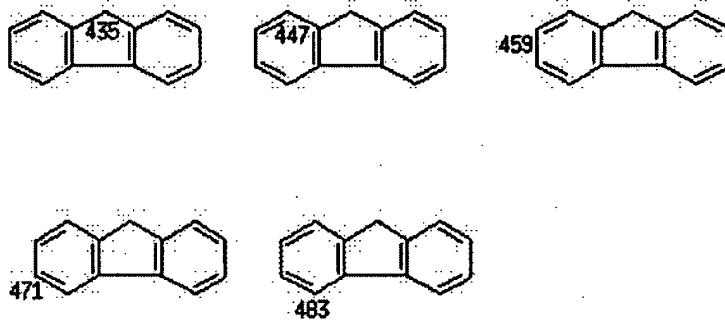




G7 = 90 / heterocycle <containing 1 or more N,
attached through 1 or more N> / (Example: 419)



G8 = aryl (opt. substd.) / (Examples: 435 / 447 / 459 /
471 / 483)



G11 = phenylene

G12 = phenylene

G13 = bond / CH₂CH₂ / CH=CH / S / O

Patent location: claim 5

Note: additional substitution also claimed

L3 ANSWER 6 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 140:311897 MARPAT

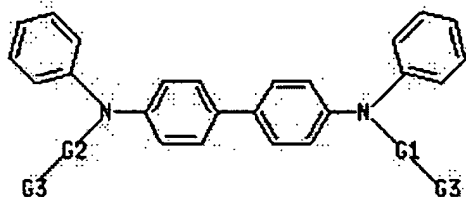
TI Electrophotographic photoconductor

IN Lin, Liang-Bih; Scharfe, Merlin E.; Hammond, Harold F.; Chen, Cindy C.;
Nealey, Richard H.; Ioannidis, Andronique; Melnyk, Andrew R.; Dinh,

Kenny-Tuan T.
 PA Xerox Corporation, USA
 SO U.S. Pat. Appl. Publ., 11 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

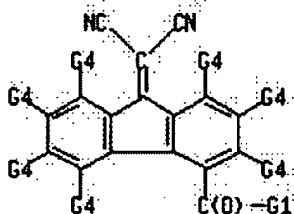
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PI	US 2004063011	A1	20040401	US 2002-253826	20020924
	JP 2004118195	A2	20040415	JP 2003-332410	20030924
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MSTR 1

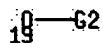


G1 = phenylene
 G2 = phenylene
 G3 = alkyl / halo / (Specifically claimed: Me / Cl)
 Patent location: claim 11

MSTR 2



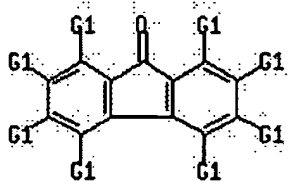
G1 = OH / 19



G2 = alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
 G3) / naphthyl / anthracenyl / aryl <containing 6-30 C>
 (opt. substd.) / halo
 G3 = R / alkyl <containing 1-34 C> /
 alkoxy <containing 1-34 C>
 G4 = H / alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
 G3) / naphthyl / anthracenyl / aryl <containing 6-30 C>
 (opt. substd.) / halo

Patent location: claim 23

MSTR 3

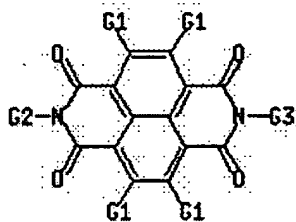


G1 = H / alkyl <containing 1-40 C> /
alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
G2) / naphthyl / anthracenyl / aryl <containing 6-30 C>
(opt. substd.) / halo / 2 or more NO₂

G2 = R / alkyl <containing 1-34 C> /
alkoxy <containing 1-34 C>

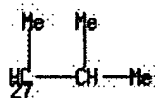
Patent location: claim 23

MSTR 4

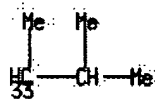


G1 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) /
alkoxy (opt. substd.) / aryl / Ph / naphthyl / anthracenyl /
halo

G2 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) /
alkoxy (opt. substd.) / aryl / Ph / **naphthyl** / anthracenyl /
(Specifically claimed: tolyl / 27)



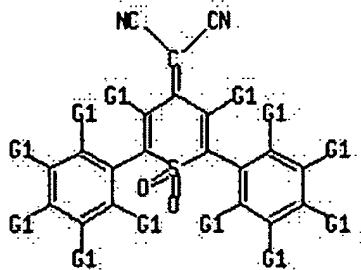
G3 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) /
aryl / Ph / **naphthyl** / anthracenyl /
(Specifically claimed: tolyl / 33)



Patent location: claim 23

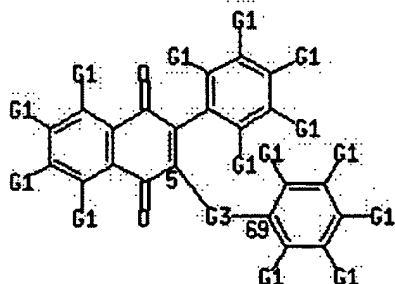
Note: substitution is restricted

MSTR 5

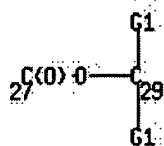


G1 = H / alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
 G2) / naphthyl / anthracenyl / aryl <containing 6-30 C>
 (opt. substd.) / halo
 G2 = R / alkyl <containing 1-34 C> /
 alkoxy <containing 1-34 C>
 Patent location: claim 23

MSTR 6

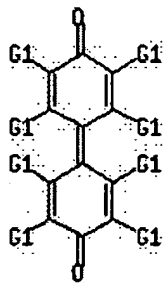


G1 = H / alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
 G2) / naphthyl / anthracenyl / aryl <containing 6-30 C>
 (opt. substd.) / halo
 G2 = R / alkyl <containing 1-34 C> /
 alkoxy <containing 1-34 C>
 G3 = 27-5 29-69 / C(O)



Patent location: claim 23

MSTR 7



G1 = H / alkyl <containing 1-40 C> /
 alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more
 G2) / naphthyl / anthracenyl / aryl <containing 6-30 C>
 (opt. substd.) / halo

G2 = R / alkyl <containing 1-34 C> /
 alkoxy <containing 1-34 C>

Patent location: claim 23

L3 ANSWER 7 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 138:305532 MARPAT

TI Fluorescent naphthalene-1,4,5,8-tetracarboxylic diimides with
 electron-donating substituents at the core, their production and their use

IN Wuerthner, Frank; Thalacker, Christoph; Schmid, Guenter

PA Infineon Technologies AG, Germany

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

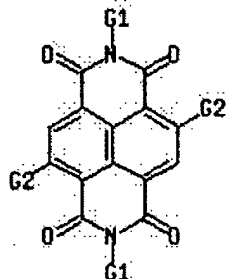
DT Patent

LA German

FAN.CNT 1

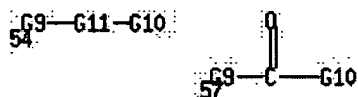
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PI	DE 10148172	A1	20030417	DE 2001-10148172	20010928
	US 2003153005	A1	20030814	US 2002-254470	20020925
PRAI	DE 2001-10148172		20010928		
OS	CASREACT 138:305532				

MSTR 1

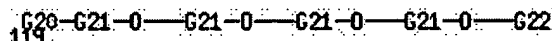
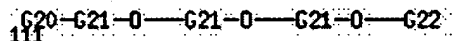
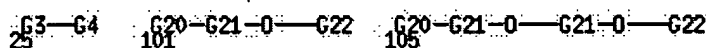


G1 = H / alkyl (opt. substd. by 1 or more G8) /
 aryl (opt. substd.) / (Specifically claimed: 54 / 57 /
 cycloalkyl <containing 3-8 C> /
 heterocycle <containing 3-8 atoms, zero or more N,
 zero or more O, zero or more S (no other heteroatoms),

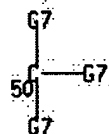
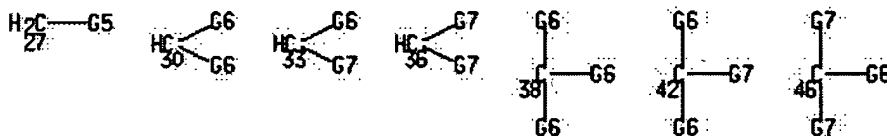
3- to 8-membered monocyclic ring> (opt. substd. by G13) /
 Ph (opt. substd. by 1 or more G14) /
 naphthyl (opt. substd. by 1 or more G14) /
 heteroaryl (opt. substd. by 1 or more G14) / Bu-t)



G2 = H / halo / NH₂ / 25 / (Specifically claimed:
 alkylamino <containing 1-20 C> (opt. substd. by 1 or more
 G19) / alkoxy <containing 1-20 C>
 (opt. substd. by 1 or more G19) / 101 / 105 / 111 / 119 /
 Cl / Br)

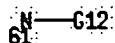


G3 = NH / O
 G4 = 27 / 30 / 33 / 36 / 38 / 42 / 46 / 50

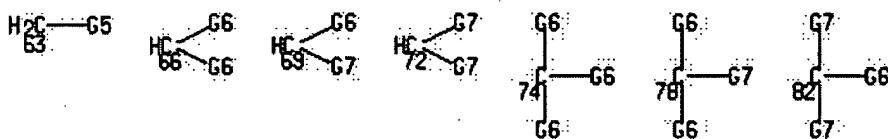


G5 = H / alkyl (opt. substd.) / aryl / alkoxy /
 alkylthio / aryloxy / arylthio
 G6 = H / aryl / alkoxy / alkylthio / aryloxy / arylthio
 G7 = alkyl (opt. substd.)
 G8 = CO₂H / SO₃H / OH / CN / alkoxy <containing 1-6 C> /
 heterocycle <containing 1 or more N,
 attached through 1 or more N, 5- to 7-membered monocyclic
 ring> (opt. substd.)
 G9 = alkylene <containing 1-28 C>
 (opt. substd. by 1 or more G8)

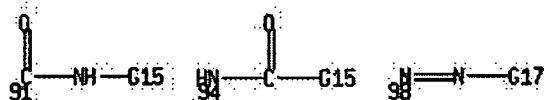
G10 = alkyl <containing 1-28 C>
(opt. substd. by 1 or more G8)
G11 = O / S / NH / 61



G12 = alkyl <containing 1-6 C>
G13 = 63 / 66 / 69 / 72 / 74 / 78 / 82 / 86



G14 = alkyl <containing 1-4 C> / OMe /
alkyl <containing 5-18 C> / alkoxy <containing 2-6 C> /
halo / OH / CN / CO2H / CONH2 / NHCHO / 91 / 94 / 98



G15 = alkyl <containing 1-18 C> /
aryl (opt. substd. by 1 or more G16) /
heteroaryl (opt. substd. by 1 or more G16)
G16 = alkyl <containing 1-6 C> /
alkoxy <containing 1-6 C> / halo / OH / CN
G17 = aryl (opt. substd. by 1 or more G18) /
heteroaryl (opt. substd. by 1 or more G18)
G18 = alkyl <containing 1-10 C> /
alkoxy <containing 1-6 C> / halo / OH / CN / CO2H
G19 = OH / CO2H / NH2 / alkylamino / dialkylamino / SO3H
G20 = O / NH
G21 = alkylene <containing 1 or more C>
(opt. substd. by 1 or more G19)
G22 = alkyl <containing 1 or more C>
(opt. substd. by 1 or more G19)

Patent location:

claim 1

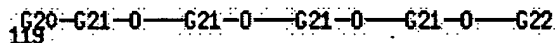
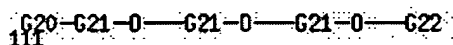
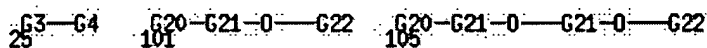
Note:

also incorporates claim 8, structures 2a and 2b

MSTR 2

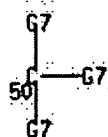
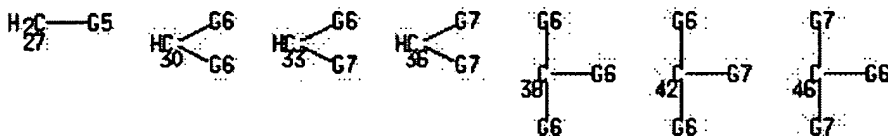
H—G2

G2 = H / halo / NH₂ / 25 / (Specifically claimed:
alkylamino <containing 1-20 C> (opt. substd. by 1 or more
G19) / alkoxy <containing 1-20 C>
(opt. substd. by 1 or more G19) / 101 / 105 / 111 / 119 /
Cl / Br)



G3 = NH / O

G4 = 27 / 30 / 33 / 36 / 38 / 42 / 46 / 50



G5 = H / alkyl (opt. substd.) / aryl / alkoxy /
alkylthio / aryloxy / arylthio
G6 = H / aryl / alkoxy / alkylthio / aryloxy / arylthio
G7 = alkyl (opt. substd.)
G19 = OH / CO₂H / NH₂ / alkylamino / dialkylamino / SO₃H
G20 = O / NH
G21 = alkylene <containing 1 or more C>
(opt. substd. by 1 or more G19)
G22 = alkyl <containing 1 or more C>
(opt. substd. by 1 or more G19)
Patent location: claim 8

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

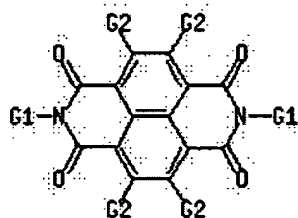
Full Text

AN 129:87831 MARPAT

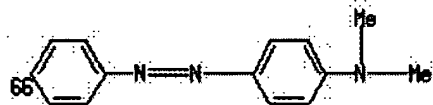
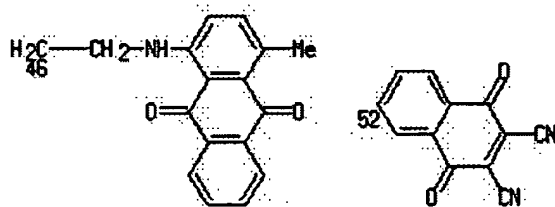
TI Optical modulator by transient absorption
 IN Tanaka, Norio; Takarada, Shigeru; Yagimoto, Hiromitsu; Tsujita, Koji;
 Ueno, Ichiro
 PA Dainippon Color and Chemicals Manufacturing Co., Ltd., Japan; Victor Co.
 of Japan, Ltd.
 SO Jpn. Kokai Tokkyo Koho, 50 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

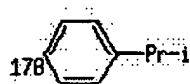
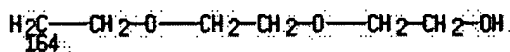
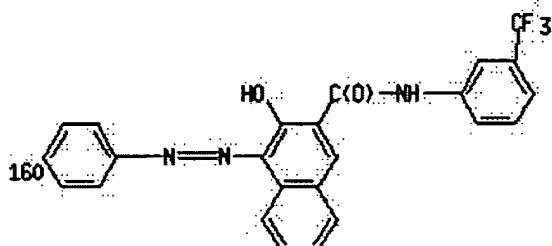
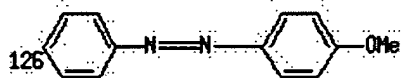
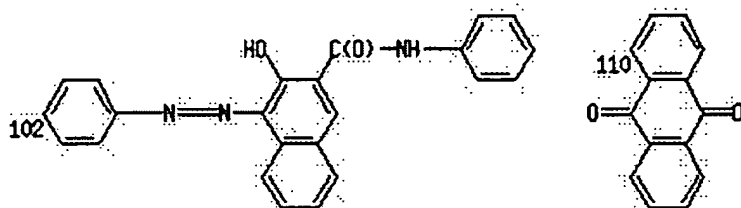
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PI	JP 10148853	A2	19980602	JP 1996-306707	19961118
	JP 3471181	B2	20031125		
PRAI	JP 1996-306707		19961118		

MSTR 1



G1 = H / OH / NH₂ (opt. substd.) /
 R <"monovalent substituent", containing zero or more
 heteroatoms, zero or more Si, zero or more Ge,
 zero or more Sn, zero or more Pb, zero or more C> /
 (Examples: 46 / 52 / 66 / 102 / 110 / dodecyl / 126 / 160 /
 178 / 164)





G2 = H / R <"monovalent substituent">

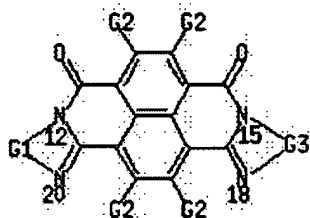
Patent location:

claim 1

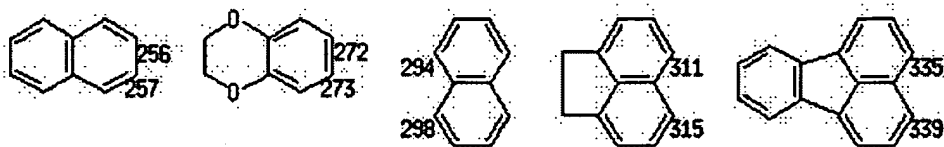
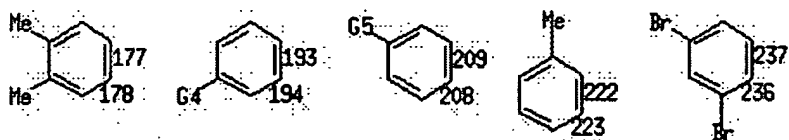
Note:

G2 groups may form a ring

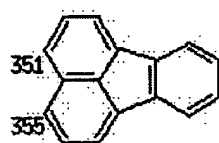
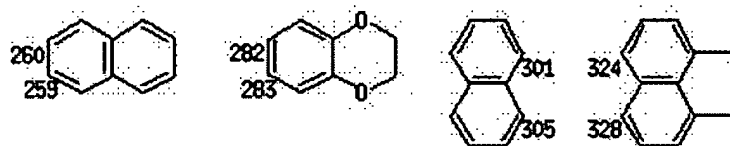
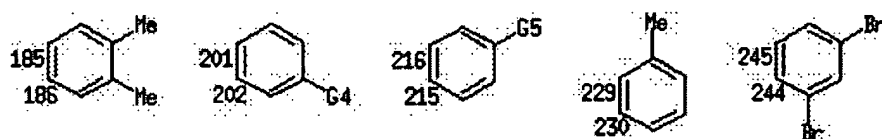
MSTR 2



G1 = R <"residue to form optionally substituted heterocycle"> / (Examples: 177-12 178-20 / 193-12 194-20 / 209-12 208-20 / 222-12 223-20 / 237-12 236-20 / 256-12 257-20 / 272-12 273-20 / 294-12 298-20 / 311-12 315-20 / 335-12 339-20)



G2 = H / R <"monovalent substituent">
 G3 = R <"residue to form optionally substituted heterocycle"> / (Examples: 185-15 186-18 / 201-15 202-18 / 216-15 215-18 / 229-15 230-18 / 245-15 244-18 / 260-15 259-18 / 282-15 283-18 / 301-15 305-18 / 324-15 328-18 / 351-15 355-18)



G4 = OMe / Me / H / OEt
 G5 = OMe / Cl / NO₂

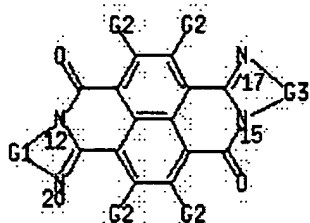
Patent location:

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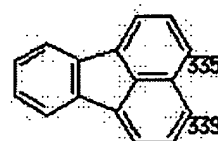
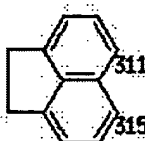
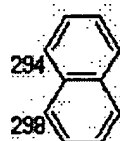
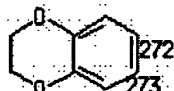
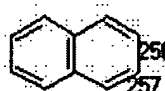
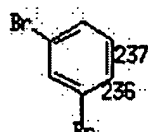
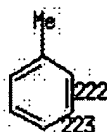
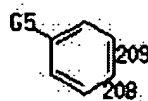
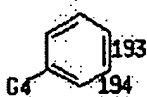
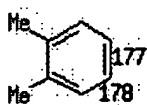
claim 1

G2 groups may form a ring

MSTR 3

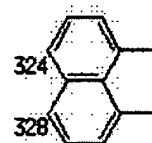
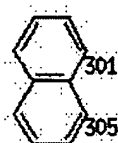
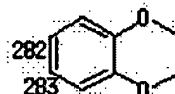
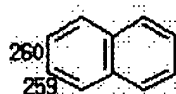
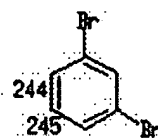
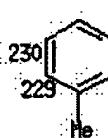
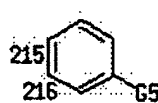
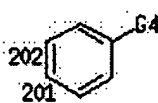
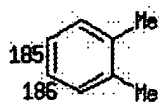


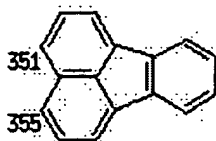
G1 = R <"residue to form optionally substituted heterocycle"> / (Examples: 177-12 178-20 / 193-12 194-20 / 209-12 208-20 / 222-12 223-20 / 237-12 236-20 / 256-12 257-20 / 272-12 273-20 / 294-12 298-20 / 311-12 315-20 / 335-12 339-20)



G2 = H / R <"monovalent substituent">

G3 = R <"residue to form optionally substituted heterocycle"> / (Examples: 185-17 186-15 / 202-17 201-15 / 215-17 216-15 / 230-17 229-15 / 244-17 245-15 / 260-17 259-15 / 282-17 283-15 / 301-17 305-15 / 324-17 328-15 / 351-17 355-15)





G4 = OMe / Me / H / OEt

G5 = OMe / Cl / NO₂

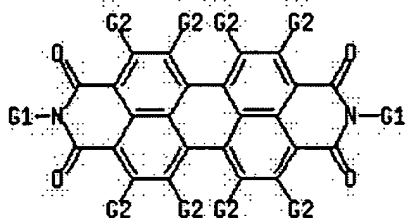
Patent location:

claim 1

Note:

G2 groups may form a ring

MSTR 4



G1 = H / OH / NH₂ (opt. substd.) /

R <"monovalent substituent", containing zero or more heteroatoms, zero or more Si, zero or more Ge,

zero or more Sn, zero or more Pb, zero or more C> /

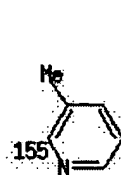
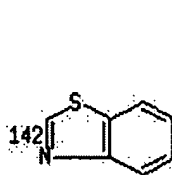
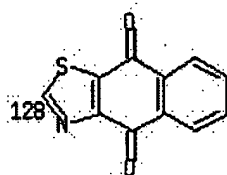
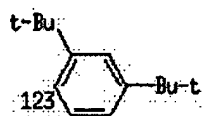
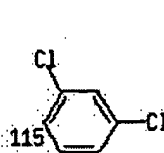
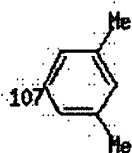
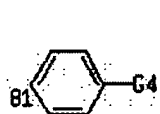
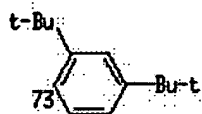
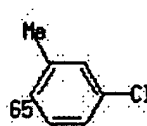
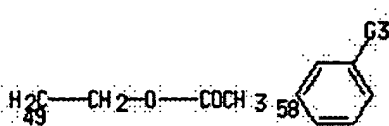
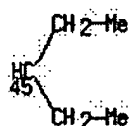
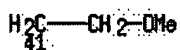
(Examples: Me / Et / 41 / 45 / cyclopentyl / cyclohexyl /

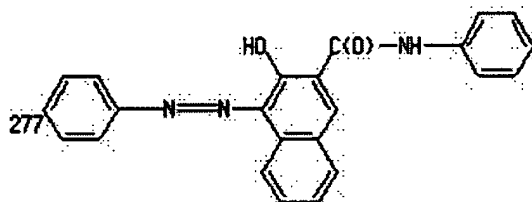
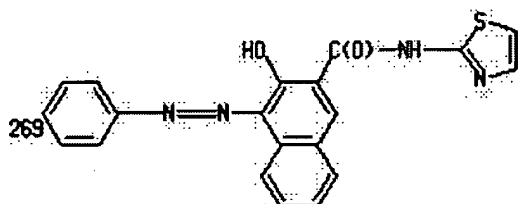
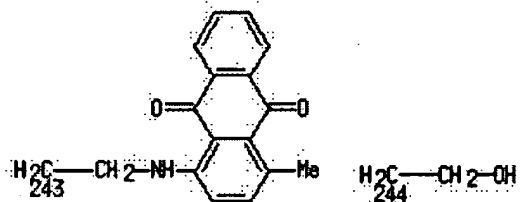
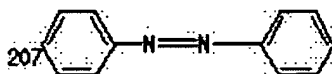
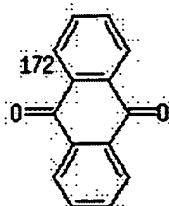
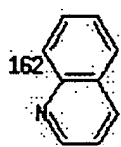
heptyl / dodecyl / CH₂Ph / CH₂CH₂Ph / 49 / Ph / 58 / 65 /

73 / 81 / 107 / 115 / 123 / 2-thiazolyl / 142 / 128 /

2-pyridyl / 4-pyridyl / 155 / 162 / 172 / 277 / 207 / 221 /

243 / 244 / 269)



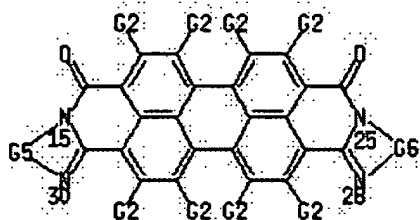


- G2 = H / R <"monovalent substituent"> / (Examples: Cl / OMe / Br)
- G3 = F / Cl / CF3
- G4 = Cl / OMe / OEt / NMe2 / 89

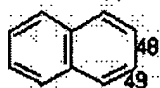


Patent location: claim 1
 Note: G2 groups may form a ring

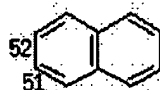
MSTR 5



G2 = H / R <"monovalent substituent"> / (Example: Cl)
 G5 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH₂CH₂ / o-C₆H₄ (opt. substd. by G7) / 48-15 49-30)

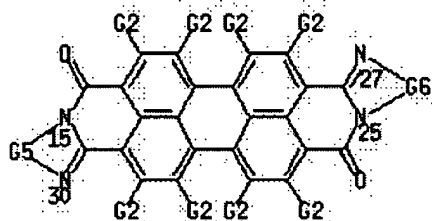


G6 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH₂CH₂ / o-C₆H₄ (opt. substd. by G7) / 52-25 51-28 / 66-25 70-28)



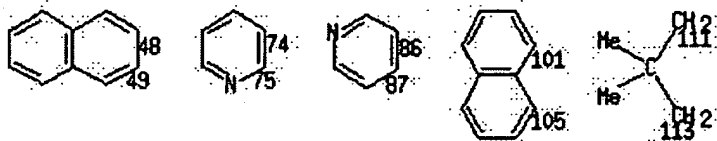
G7 = Me / Cl / OEt / NO₂ / Br / Bu-t
 Patent location: claim 1
 Note: G2 groups may form a ring

MSTR 6

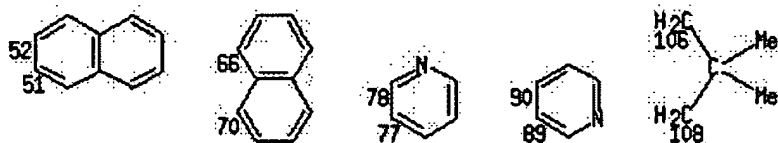


G2 = H / R <"monovalent substituent"> / (Example: Cl)
 G5 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH₂CH₂ /

o-C₆H₄ (opt. substd. by G7) / 48-15 49-30 / 74-15 75-30 /
 86-15 87-30 / 101-15 105-30 / 111-15 113-30)

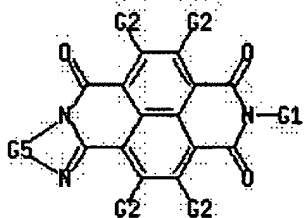


G6 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH₂CH₂ /
 o-C₆H₄ (opt. substd. by G7) / 52-27 51-25 / 78-27 77-25 /
 66-27 70-25 / 90-27 89-25 / 106-27 108-25)



G7 = Me / Cl / OEt / NO₂ / Br / Bu-t
 Patent location: claim 1
 Note: G2 groups may form a ring

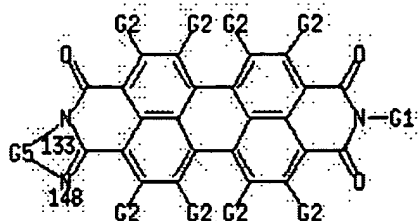
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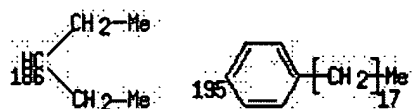
G1 = H / OH / NH₂ (opt. substd.) /
 R <"monovalent substituent", containing zero or more
 heteroatoms, zero or more Si, zero or more Ge,
 zero or more Sn, zero or more Pb, zero or more C>
 G2 = H / R <"monovalent substituent">
 G5 = R <"residue to form optionally substituted
 heterocycle">

Patent location: claim 1
 Note: G2 groups may form a ring

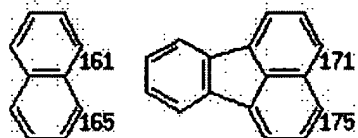
MSTR 7B



G1 = H / OH / NH₂ (opt. substd.) /
 R <"monovalent substituent", containing zero or more
 heteroatoms, zero or more Si, zero or more Ge,
 zero or more Sn, zero or more Pb, zero or more C> /
 (Examples: Me / Et / 186 / decyl / 195 / CH₂CH₂Ph /
 cyclohexyl / dodecyl)



G2 = H / R <"monovalent substituent">
 G5 = R <"residue to form optionally substituted
 heterocycle"> / (Examples: o-C₆H₄ (opt. substd. by G6) /
 161-133 165-148 / 171-133 175-148)



G6 = Me / Bu-t
 Patent location: claim 1
 Note: G2 groups may form a ring

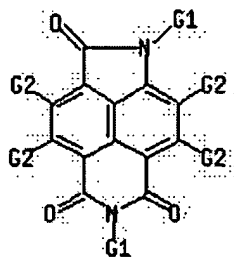
L3 ANSWER 9 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

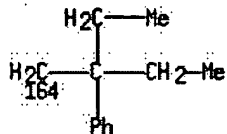
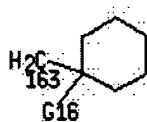
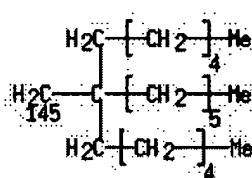
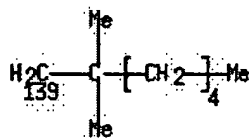
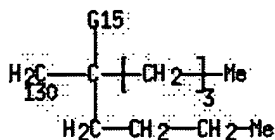
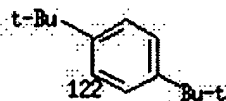
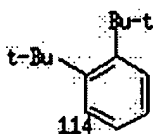
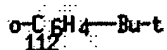
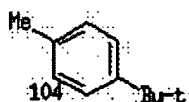
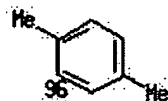
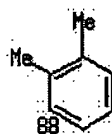
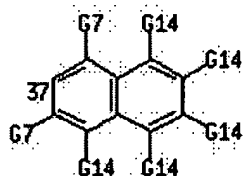
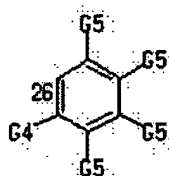
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 IN Langhals, Heinz; Von Unold, Petra Christa
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

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MSTR 1

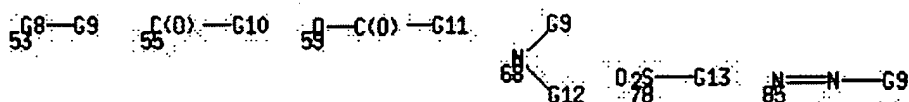


G1 = alkyl <containing 2-25 C>
 (opt. substd. by 1 or more G3) /
 cycloalkyl <containing 3-10 C> / 26 /
 1-naphthyl (opt. substd. by 1 or more G6) / 37 /
 (Specifically claimed: o-C₆H₄Me / 88 / 96 / 104 / 112 / 114 /
 122 / Bu-s / 130 / 139 / 145 / 163 / 164)

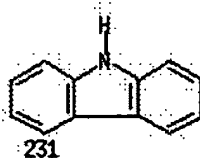
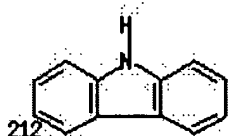
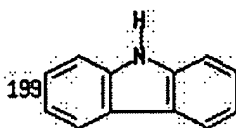
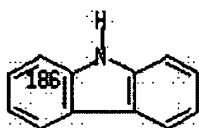


G2 = H / alkyl <containing 1-6 C> /
 cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> /

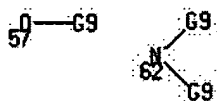
halo / CN / NO₂ / 53 / 55 / 59 / 68 / 78 / 85 /
 (Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)



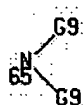
G3 = halo / aryl <containing 6-10 C> / heteroaryl /
 cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) /
 (Examples: Br / F / Cl / furyl / thienyl / pyrrolyl /
 imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl /
 pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl /
 indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 /
 186 / 199 / 212 / 231)



G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
 G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
 G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
 G7 = (up to 1) H / halo / alkyl <containing 1-12 C> /
 Ph / tolyl / (Examples: Br / F / Cl)
 G8 = O / C(O) / SO₂
 G9 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me
 G10 = 57 / 62

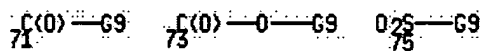


G11 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 65

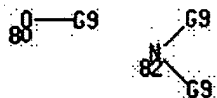


G12 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 71 / 73 /

75



G13 = 80 / 82



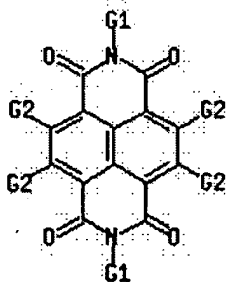
G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Examples: Br / F / Cl)

G15 = Me / Ph

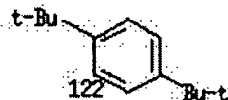
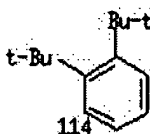
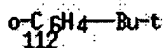
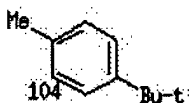
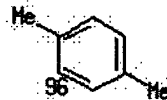
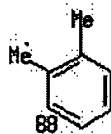
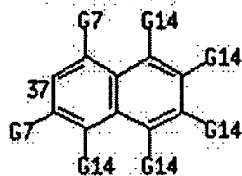
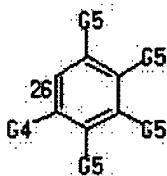
G16 = Et / Pr-n

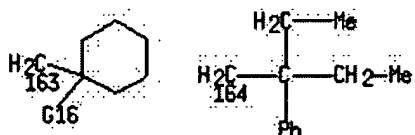
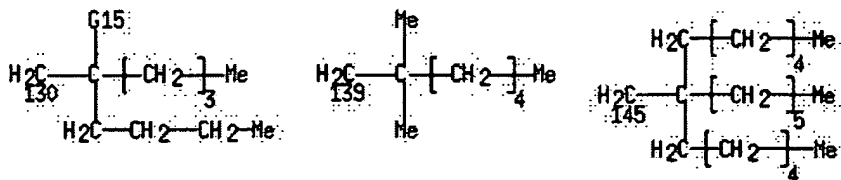
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MSTR 2

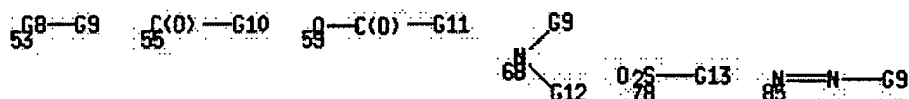


G1 = alkyl <containing 2-25 C>
(opt. substd. by 1 or more G3) /
cycloalkyl <containing 3-10 C> / 26 /
1-naphthyl (opt. substd. by 1 or more G6) / 37 /
(Specifically claimed: o-C₆H₄Me / 88 / 96 / 104 / 112 / 114 /
122 / Bu-s / 130 / 139 / 145 / 163 / 164)

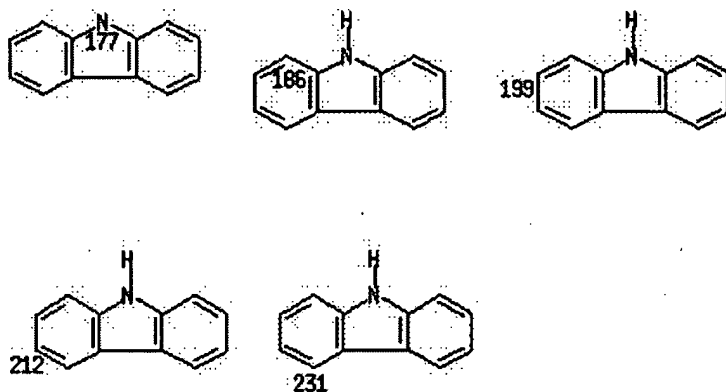




G2 = H / alkyl <containing 1-6 C> /
 cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> /
 halo / CN / NO₂ / 53 / 55 / 59 / 68 / 78 / 85 /
 (Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)

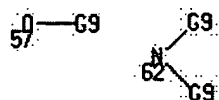


G3 = halo / aryl <containing 6-10 C> / heteroaryl /
 cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) /
 (Examples: Br / F / Cl / furyl / thienyl / pyrrolyl /
 imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl /
 pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl /
 indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 /
 186 / 199 / 212 / 231)



G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
 G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
 G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)

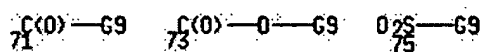
- G7 = (up to 1) H / halo / alkyl <containing 1-12 C> /
Ph / tolyl / (Examples: Br / F / Cl)
G8 = O / C(O) / SO₂
G9 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me
G10 = 57 / 62



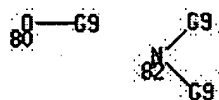
- G11 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 65



- G12 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 71 / 73 /
75

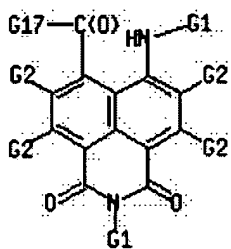


- G13 = 80 / 82



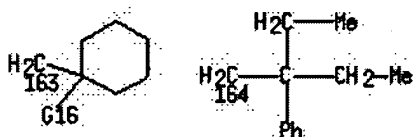
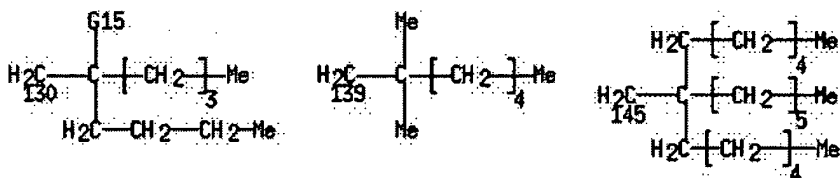
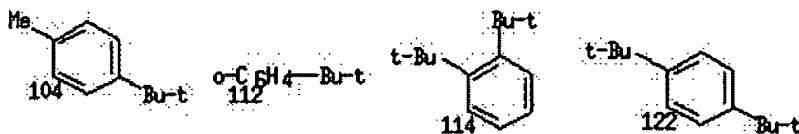
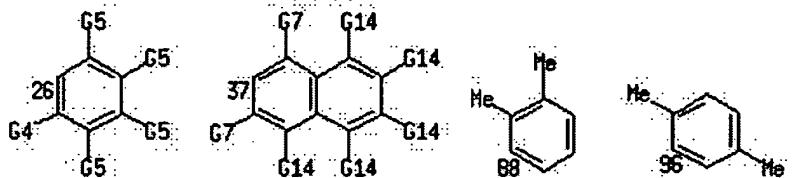
- G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Examples: Br / F / Cl)
G15 = Me / Ph
G16 = Et / Pr-n
Patent location: claim 8
Note: both G1 groups cannot be ethyl or decyl

MSTR 3

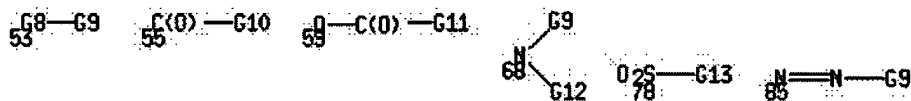


- G1 = alkyl <containing 2-25 C>
(opt. substd. by 1 or more G3) /
cycloalkyl <containing 3-10 C> / 26 /

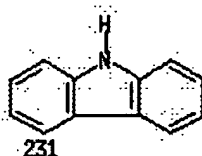
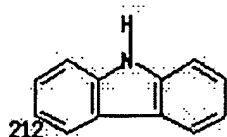
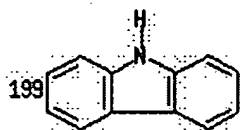
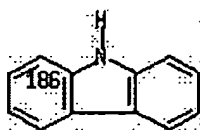
1-naphthyl (opt. substd. by 1 or more G6) / 37 /
 (Specifically claimed: o-C₆H₄Me / 88 / 96 / 104 / 112 / 114 /
 122 / Bu-s / 130 / 139 / 145 / 163 / 164)



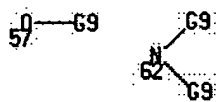
G2 = H / alkyl <containing 1-6 C> /
 cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> /
 halo / CN / NO₂ / 53 / 55 / 59 / 68 / 78 / 85 /
 (Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)



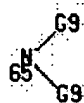
G3 = halo / aryl <containing 6-10 C> / heteroaryl /
 cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) /
 (Examples: Br / F / Cl / furyl / thienyl / pyrrolyl /
 imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl /
 pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl /
 indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 /
 186 / 199 / 212 / 231)



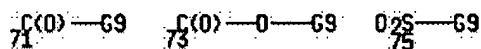
- G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
- G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
- G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
- G7 = (up to 1) H / halo / alkyl <containing 1-12 C> /
 Ph / tolyl / (Examples: Br / F / Cl)
- G8 = O / C(O) / SO₂
- G9 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me
- G10 = 57 / 62



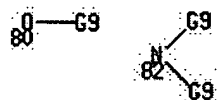
- G11 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 65



- G12 = alkyl <containing 1-4 C> / Ph / p-C₆H₄Me / 71 / 73 /
 75



- G13 = 80 / 82



- G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
 (Examples: Br / F / Cl)
- G15 = Me / Ph
- G16 = Et / Pr-n

G17 = OH / 241

OH
241 • G18

G18 = alkali metal atom

Patent location: claim 9

L3 ANSWER 10 OF 10 MARPAT COPYRIGHT 2005 ACS on STN

Full Text

AN 116:117115 MARPAT

TI Cyclic bis-dicarboximide charge-transport compounds for electrophotography

IN Chen, Chin H.; Hung, Yann

PA Eastman Kodak Co., USA

SO U.S., 9 pp.

CODEN: USXXAM

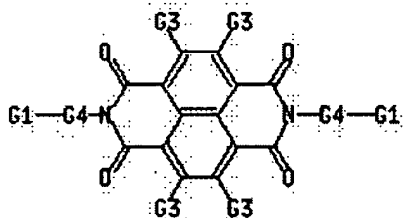
DT Patent

LA English

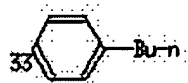
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4992349	A	19910212	US 1989-432018	19891106
PRAI	US 1989-432018		19891106		

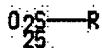
MSTR 1



G1 = aryl (opt. substd. by 1 or more G2) /
 (Specifically claimed: 33) / (Examples: Ph (opt. substd.) /
 naphthyl (opt. substd.))



G2 = alkyl <containing 2-20 C> /
 alkoxy <containing 2-20 C> / perfluoroalkyl <containing 2-20
 C> / perfluoroalkyloxy <containing 2-20 C> / 25 / SO3H /
 SO2NH2 / CN / NO2



G3 = H / alkyl <containing 1-4 C> /
 alkoxy <containing 1-4 C> / F / Cl / Br / I
 G4 = (0-3) CH2

Patent location: claim 1

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	ENTRY	SESSION
FULL ESTIMATED COST	146.13	146.34

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